10/070,279
-SEARCH TRANSCRIPT-

Connecting via Winsock to STN

(1)

Welcome to STN International! Enter x:x

LOGINID:ssptal623zct

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	SEP 09	CA/CAplus records now contain indexing from 1907 to the present
NEWS 4	DEC 08	INPADOC: Legal Status data reloaded
NEWS 5	SEP 29	DISSABS now available on STN
NEWS 6	OCT 10	PCTFULL: Two new display fields added
NEWS 7	OCT 21	BIOSIS file reloaded and enhanced
NEWS 8	OCT 28	BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS 9	NOV 24	MSDS-CCOHS file reloaded
NEWS 10	DEC 08	CABA reloaded with left truncation
NEWS 11	DEC 08	IMS file names changed
NEWS 12	DEC 09	Experimental property data collected by CAS now available in REGISTRY
NEWS 13	DEC 09	STN Entry Date available for display in REGISTRY and CA/CAplus
NEWS 14	DEC 17	DGENE: Two new display fields added
NEWS 15	DEC 18	BIOTECHNO no longer updated
NEWS 16	DEC 19	CROPU no longer updated; subscriber discount no longer available
NEWS 17	DEC 22	Additional INPI reactions and pre-1907 documents added to CAS databases
NEWS 18	DEC 22	IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS 19	DEC 22	ABI-INFORM now available on STN
NEWS 20	JAN 27	Source of Registration (SR) information in REGISTRY updated and searchable
NEWS 21	JAN 27	A new search aid, the Company Name Thesaurus, available in CA/CAplus
NEWS 22	FEB 05	German (DE) application and patent publication number format changes
NEWS 23	MAR 03	MEDLINE and LMEDLINE reloaded
NEWS 24	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS 25	MAR 03	FRANCEPAT now available on STN
NEWS 26	MAR 29	Pharmaceutical Substances (PS) now available on STN
NEWS 27	MAR 29	WPIFV now available on STN
NEWS 28	MAR 29	No connect hour charges in WPIFV until May 1, 2004
NEWS 29	MAR 29	New monthly current-awareness alert (SDI) frequency in RAPRA

NEWS EXPRESS	MARCH 5 CURRENT WINDOWS VERSION IS V7.00A, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

(2)

* * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 06:35:51 ON 30 MAR 2004

=> LOG HOLD

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 06:36:29 ON 30 MAR 2004

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssptal623zct

PASSWORD:
* * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'HOME' AT 06:55:18 ON 30 MAR 2004
FILE 'HOME' ENTERED AT 06:55:18 ON 30 MAR 2004

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 06:55:26 ON 30 MAR 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 29 MAR 2004 HIGHEST RN 668968-88-5
DICTIONARY FILE UPDATES: 29 MAR 2004 HIGHEST RN 668968-88-5

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

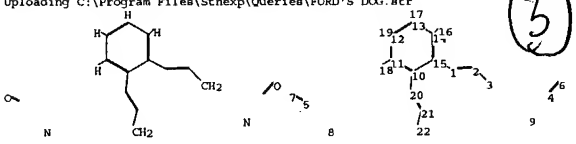
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>

Uploading C:\Program Files\Stnexp\Queries\FORD'S DOG.str

(3)

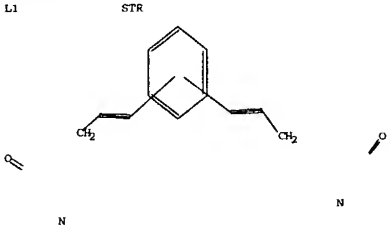


chain nodes :
1 2 3 4 5 6 7 8 9 16 17 18 19 20 21 22
ring nodes :
10 11 12 13 14 15
chain bonds :
1-2 1-15 2-3 4-6 5-7 10-20 11-18 12-19 13-17 14-16 20-21 21-22
ring bonds :
10-11 10-15 11-12 12-13 13-14 14-15
exact/norm bonds :
4-6 5-7
exact bonds :
1-2 1-15 2-3 10-20 11-18 12-19 13-17 14-16 20-21 21-22
normalized bonds :
10-11 10-15 11-12 12-13 13-14 14-15

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS 21:CLASS 22:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 06:55:42 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 626 TO ITERATE

(4)

100.0% PROCESSED 626 ITERATIONS (12 INCOMPLETE) 19 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:	ONLINE **COMPLETE**
	BATCH **COMPLETE**
PROJECTED ITERATIONS:	11019 TO 14021
PROJECTED ANSWERS:	119 TO 641

L2 19 SEA SSS SAM L1

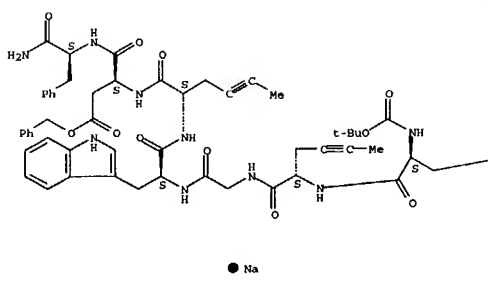
=> d 19

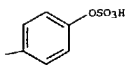
L2 ANSWER 19 OF 19 REGISTRY COPYRIGHT 2004 ACS on STN
RN 100654-10-2 REGISTRY
ITERATION INCOMPLETE
CN L-Phenylalaninamide, N-[(1,1-dimethylethoxy)carbonyl]-O-sulfo-L-tyrosyl-4,4,5,5-tetradehydro-L-norleucylglycyl-L-tryptophyl-4,4,5,5-tetradehydro-L-norleucyl-L-α-aspartyl-, 6-(phenylmethyl) ester, monosodium salt (9CI) (CA INDEX NAME)
FS PROTEIN SEQUENCE; STEREOSEARCH
MF C59 H67 N9 O15 S . Na
SR CA
LC STN Files: CA, CAPLUS, CASREACT

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.

PAGE 1-A





1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> s l1 sss full
FULL SEARCH INITIATED 06:56:25 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 12941 TO ITERATE

100.0% PROCESSED 12941 ITERATIONS (302 INCOMPLETE) 465 ANSWERS
SEARCH TIME: 00.00.10

L3 465 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	157.61	157.82

FILE 'CAPLUS' ENTERED AT 06:56:46 ON 30 MAR 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 30 Mar 2004 VOL 140 ISS 14
FILE LAST UPDATED: 29 Mar 2004 (20040329/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l34
L34 NOT FOUND
The L-number entered has not been defined in this session, or it has been deleted. To see the L-numbers currently defined in this session, enter DISPLAY HISTORY at an arrow prompt (=>).

=> s l3

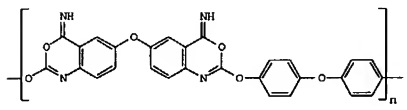
L4 115 L3

=> d 115 ibib abs hitstr

L4 ANSWER 115 OF 115 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1980:216210 CAPLUS
DOCUMENT NUMBER: 92:216210
TITLE: Thermostable heterocyclic polymers
INVENTOR(S): Chernikhov, A. Ya.; Yakovlev, M. N.; Lysova, V. B.; Gefter, E. L.; Shmagina, N. N.
PATENT ASSIGNEE(S): USSR
SOURCE: Fr. Demande, 45 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2428655	A1	19800111	FR 1978-17808	19780614
FR 2428655	B1	19810508		
PRIORITY APPLN. INFO.:			FR 1978-17808	19780614

GI



AB Copolymers with good heat resistance are prepared by the copolymn. of >1 monomer (and/or oligomer) containing multiple CN and/or C.tplbond.CH groups as well as other functional groups such as NCO, NCS, NH2, OH, NSO, or SH groups with >1 other monomer (and/or oligomer) containing functional groups such as OH, NCO, NH2, SH, NCS, or NSO groups. The nitrile and/or ethynyl groups are located in the alpha, ortho, or peri position with respect to the other functional groups and cause the formation of heterocyclic rings during polymerization The polymers contain aromatic rings. Some of the 44 polymers were prepared from decaboranes, silanes, siloxanes, cyclotriphosphazenes, phosphates, or halogen-containing compds. Thus, 3.0 g bis(3-cyano-4-isocyanatophenyl) ether and 2 g bis(4-hydroxyphenyl) ether were heated at ≤300° to prepare 98.5% copolymer I [73539-21-6], which lost 1.8% of its weight during 100 h at 300° in air.

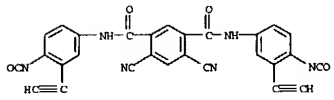
IT **73614-80-9P 73614-91-2P 73615-19-7P**
73629-33-1P 73644-16-3P 73650-30-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and heat resistance of)

RN 73614-80-9 CAPLUS
CN 1,3-Benzenedicarboxamide, 4,6-dicyano-N,N'-bis(3-ethynyl-4-isocyanatophenyl)-, polymer with 5,6-dimercapto-2(1H)-quinazolinethione and 3-isothiocyanato-7-(sulfinylamino)-2,8-phenazinedicarbonitrile (9CI) (CA INDEX NAME)

CM 1

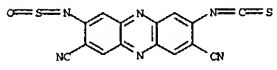
CRN 73614-79-6

CMF C28 H12 N6 O4



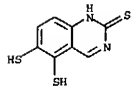
CM 2

CRN 73614-78-5
CMF C15 H4 N6 O S2



CM 3

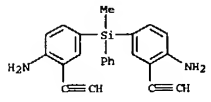
CRN 73614-77-4
CMF C8 H6 N2 S3



RN 73614-91-2 CAPLUS
CN Carbamic acid, [2-cyano-4-[1-(3-cyano-4-isocyanatophenyl)-2,2,2-trifluoro-1-(trifluoromethyl)ethyl]phenyl]-, 2,3,5,6-tetracyano-1,4-phenylene ester, polymer with 4,4'-(methylphenylsilylene)bis[2-ethynylbenzenamine] (9CI) (CA INDEX NAME)

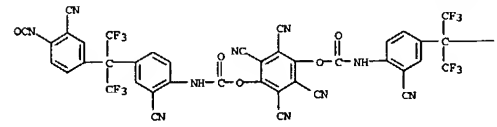
CM 1

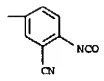
CRN 73614-90-1
CMF C23 H20 N2 Si



CM 2

CRN 73614-89-8
CMF C48 H14 F12 N12 O6

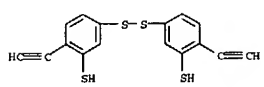




RN 73615-19-7 CAPLUS
CN Carbamic acid, 1,3,4-oxadiazole-2,5-diylbis-, bis[4-[1-methyl-1-[4-[[[(5-(sulfinylamino)-1,3,4-oxadiazol-2-yl]amino]carbonyl]oxy]phenyl]ethyl]phenyl] ester, polymer with 3,3'-dithiobis[6-ethynylbenzenethiol] (9CI) (CA INDEX NAME)

CM 1

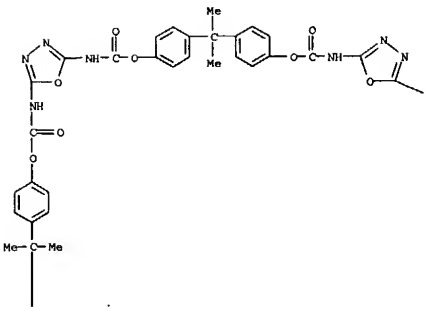
CRN 73615-18-6
CMF C16 H10 S4



CM 2

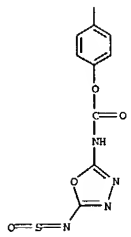
CRN 73615-17-5
CMF C40 H32 N12 O13 S2

PAGE 1-A

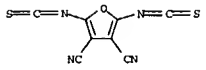


PAGE 1-B

PAGE 2-A



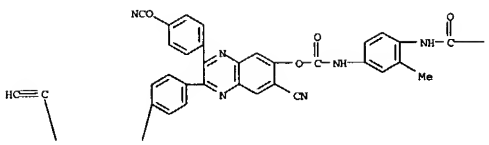
RN 73629-33-1 CAPLUS



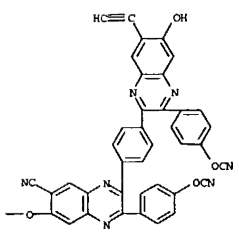
CM 2

CRN 73644-14-1
CMF C87 H44 N16 O10

PAGE 1-A



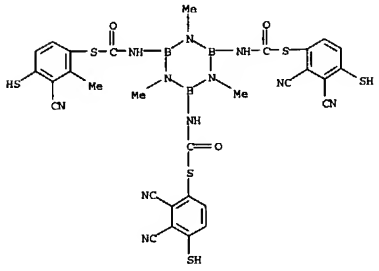
PAGE 1-B



CN Carbamothioic acid, [6-[[[(3-cyano-4-mercapto-2-methylphenyl)thio]carbonyl]amino]-1,3,5-trimethyl-2,4-borazinediyl]bis-, S,S-bis(2,3-dicyano-4-mercaptophenyl) ester, polymer with 1,1'-methylenebis[3,5-diethynyl-4-isocyanatobenzene] (9CI) (CA INDEX NAME)

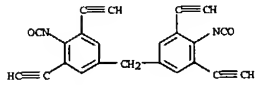
CM 1

CRN 73629-32-0
CMF C30 H24 B3 N11 O3 S6



CM 2

CRN 73629-31-9
CMF C23 H10 N2 O2

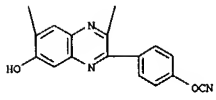


RN 73644-16-3 CAPLUS
CN Carbamic acid, (2-methyl-1,4-phenylene)bis-, bis[3-(4-cyanatophenyl)-2-[4-[3-(4-cyanatophenyl)-7-ethynyl-6-hydroxy-2-quinoxalinyl]phenyl]-7-cyano-6-quinoxalinyl] ester, polymer with 2,5-diisothiocyanato-3,4-furandicarbonitrile (9CI) (CA INDEX NAME)

CM 1

CRN 73644-15-2
CMF C8 N4 O S2

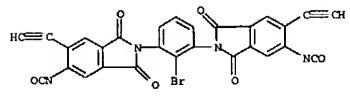
PAGE 2-A



RN 73650-30-3 CAPLUS
CN Urea, N,N''-[oxybis(2-cyano-4,1-phenylene)]bis[N'-[4-[[[(5-amino-3,4-dicyano-2-thienyl)amino]carbonyl]amino]methylphenyl]-, polymer with 2,2'-(2-bromo-1,3-phenylene)bis[5-ethynyl-6-isocyanato-1H-isoindole-1,3(2H)-dione] and (diaminomethylene)propanedinitrile (9CI) (CA INDEX NAME)

CM 1

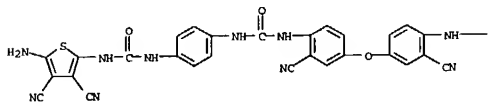
CRN 73601-05-5
CMF C28 H9 Br N4 O6



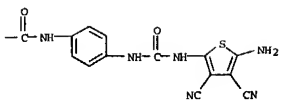
CM 2

CRN 73412-10-9
CMF C44 H30 N16 O5 S2
CCI IDS

PAGE 1-A

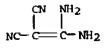


2 (D1-Me)



CM 3

CRN 1187-12-8
CMF C4 H4 N4



=> log hold
COST IN U.S. DOLLARS — SINCE FILE ENTRY: 5.63 — TOTAL SESSION: 163.45

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) — SINCE FILE ENTRY: -0.69 — TOTAL SESSION: -0.69

CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 06:58:03 ON 30 MAR 2004

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal623zct

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 07:02:33 ON 30 MAR 2004
FILE 'CAPLUS' ENTERED AT 07:02:33 ON 30 MAR 2004
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS — SINCE FILE ENTRY: 5.63 — TOTAL SESSION: 163.45

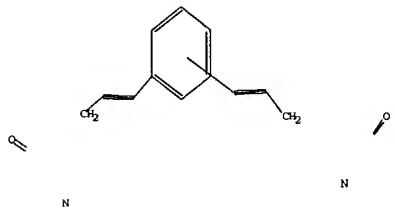
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) — SINCE FILE ENTRY: -0.69 — TOTAL SESSION: -0.69

CA SUBSCRIBER PRICE

=> file reg
COST IN U.S. DOLLARS — SINCE FILE ENTRY: 5.63 — TOTAL SESSION: 163.45

L5 STRUCTURE UPLOADED

=> d l5
L5 HAS NO ANSWERS
L5 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l5
SAMPLE SEARCH INITIATED 07:02:58 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1148 TO ITERATE

87.1% PROCESSED 1000 ITERATIONS (3 INCOMPLETE) 10 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 20928 TO 24992
PROJECTED ANSWERS: 26 TO 432

L6 10 SEA SSS SAM L5

=> d 1-10

L6 ANSWER 1 OF 10 REGISTRY COPYRIGHT 2004 ACS on STN
RN 654678-59-8 REGISTRY
CN Benzeneacetic acid, 3-[3-[[[[[6-[[[1,1-dimethylethoxy)carbonyl]amino]-3-pyridinyl]methyl]amino]carbonyl]oxy]-1-propynyl]-5-(3-hydroxy-1-propynyl)-, methyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C27 H29 N3 O7
SR CA
LC STN Files: CA, CAPLUS

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) — SINCE FILE ENTRY: -0.69 — TOTAL SESSION: -0.69

CA SUBSCRIBER PRICE

FILE 'REGISTRY' ENTERED AT 07:02:42 ON 30 MAR 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE *HELP USAGETERMS* FOR DETAILS.
COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 29 MAR 2004 HIGHEST RN 668968-88-5
DICTIONARY FILE UPDATES: 29 MAR 2004 HIGHEST RN 668968-88-5

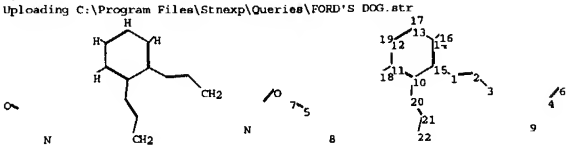
TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

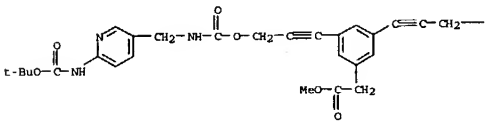
Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\FORD'S DOG.str



chain nodes :
1 2 3 4 5 6 7 8 9 16 17 18 19 20 21 22
ring nodes :
10 11 12 13 14 15
chain bonds :
1-2 1-15 2-3 4-6 5-7 10-20 11-18 12-19 13-17 14-16 20-21 21-22
ring bonds :
10-11 10-15 11-12 12-13 13-14 14-15
exact/norm bonds :
4-6 5-7
exact bonds :
1-2 1-15 2-3 10-20 11-18 12-19 13-17 14-16 20-21 21-22
normalized bonds :
10-11 10-15 11-12 12-13 13-14 14-15

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS 21:CLASS 22:CLASS



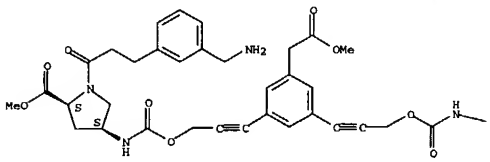
—OH

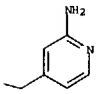
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 2 OF 10 REGISTRY COPYRIGHT 2004 ACS on STN
RN 654677-65-3 REGISTRY
CN L-Proline, 1-[3-[3-(aminomethyl)phenyl]-1-oxopropyl]-4-[[[[3-[3-[3-[[[[(2-amino-4-pyridinyl)methyl]amino]carbonyl]oxy]-1-propynyl]-5-(2-methoxy-2-oxoethyl)phenyl]-2-propynyl]oxy]carbonyl]amino]-, methyl ester, (4S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C39 H42 N6 O9
CI COM
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.





PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

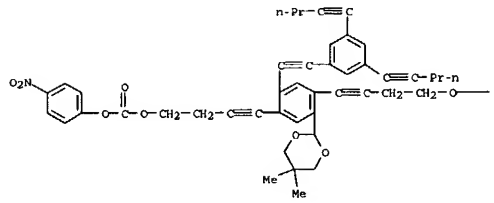
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

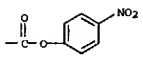
L6 ANSWER 3 OF 10 REGISTRY COPYRIGHT 2004 ACS on STN
RN 618119-49-6 REGISTRY
CN Carbonic acid, [2-(5,5-dimethyl-1,3-dioxan-2-yl)-5-[(3,5-di-1-pentynylphenyl)ethynyl]-1,4-phenylene]di-3-butyne-4,1-diyl bis(4-nitrophenyl) ester, polymer with 4,4'-[2-(1,3-dioxolan-2-yl)-5-[(3,5-di-1-pentynylphenyl)ethynyl]-1,4-phenylene]bis[3-butyn-1-ol] (9CI) (CA INDEX NAME)
MF (C52 H46 N2 O12 . C35 H34 O4)x
CI PMS
PCT Polyacetylene
SR CA
LC STN Files: CA, CAPLUS

RELATED POLYMERS AVAILABLE WITH POLYLINK

CM 1

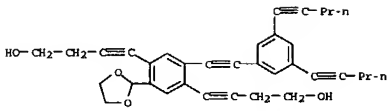
CRN 618119-47-4
CMF C52 H46 N2 O12





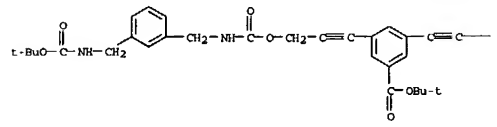
CM 2

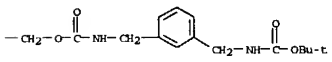
CRN 618119-45-2
CMF C35 H34 O4



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 4 OF 10 REGISTRY COPYRIGHT 2004 ACS on STN
RN 452295-32-8 REGISTRY
CN Benzoic acid, 3,5-bis[3-[[[[[3-[[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]phenyl]methyl]amino]carbonyl]oxy]-1-propynyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C45 H54 N4 O10
SR CA
LC STN Files: CA, CAPLUS

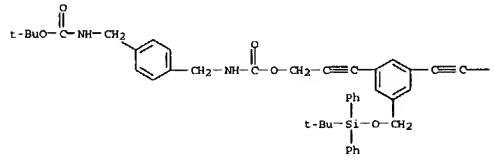


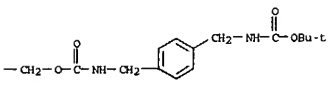


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 5 OF 10 REGISTRY COPYRIGHT 2004 ACS on STN
RN 452295-29-3 REGISTRY
CN Carbamic acid, [[4-[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]phenyl]methyl]-, [5-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-1,3-phenylene]di-2-propyne-3,1-diyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C57 H66 N4 O9 Si
SR CA
LC STN Files: CA, CAPLUS

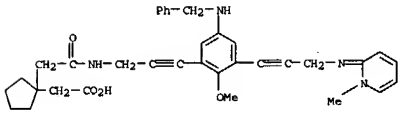




PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

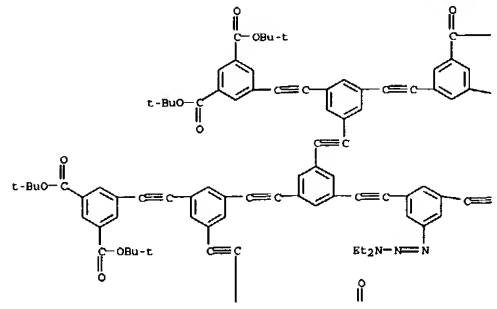
L6 ANSWER 6 OF 10 REGISTRY COPYRIGHT 2004 ACS on STN
RN 327166-25-6 REGISTRY
CN Cyclopentaneacetic acid, 1-[2-[[3-[2-methoxy-3-[3-[(1-methyl-2(1H)-pyridinylidene)amino]-1-propynyl]-5-[(phenylmethyl)amino]phenyl]-2-propynyl]amino]-2-oxoethyl]-, conjugate monoacid (9CI) (CA INDEX NAME)
MF C35 H38 N4 O4 . H
SR CA
LC STN Files: CA, CAPLUS, CASREACT



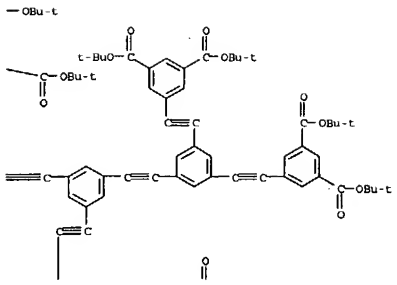
● H+

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

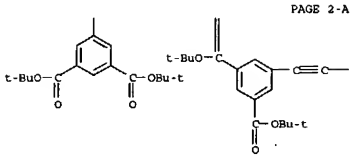
L6 ANSWER 7 OF 10 REGISTRY COPYRIGHT 2004 ACS on STN
RN 196929-11-0 REGISTRY
ITERATION INCOMPLETE
CN 1,3-Benzenedicarboxylic acid, 5,5',5'',5''',5'''',5''''',5'''''',5'''''''-[[5-(3,3-diethyl-1-triazenyl)-1,3-phenylene]bis[2,1-ethynediyl-5,1,3-benzenetriylbis(2,1-ethynediyl-5,1,3-benzenetriyldi-2,1-ethynediyl)]]octakis-, hexadecakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)
MF C202 H199 N3 O32
SR CA
LC STN Files: CA, CAPLUS



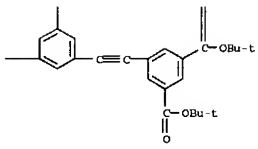
PAGE 1-B



PAGE 2-A



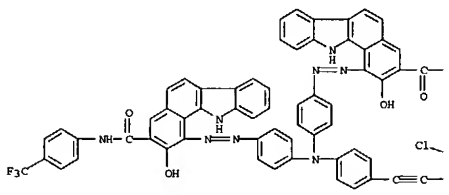
PAGE 2-B



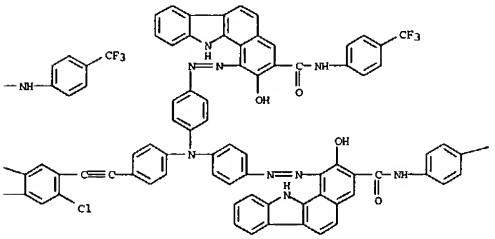
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 8 OF 10 REGISTRY COPYRIGHT 2004 ACS on STN
RN 149849-75-2 REGISTRY
ITERATION INCOMPLETE
CN 11H-Benzo[a]carbazole-3-carboxamide, 1,1',1'',1'''-[(2,5-dichloro-1,4-phenylene)bis[2,1-ethynediyl-4,1-phenylenenitrilobis(4,1-phenyleneazo)]]tetrakis[2-hydroxy-N-[4-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)
MF C142 H82 Cl2 F12 N18 O8
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

PAGE 1-A

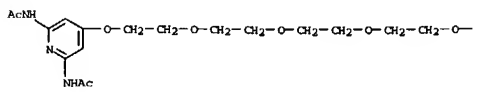


PAGE 1-B

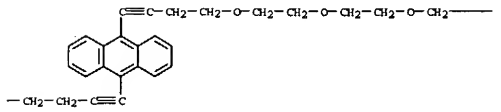


CN Acetamide, N,N',N'',N'''-[9,10-anthracenediylbis(3,6,9,12-tetraoxahexadec-15-yne-16,1-diyloxydi-4,2,6-pyridinetriyl)]tetrakis- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C56 H68 N6 O14
SR CA
LC STN Files: CA, CAPLUS

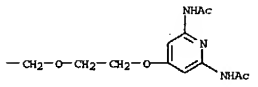
PAGE 1-A



PAGE 1-B



PAGE 1-C



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

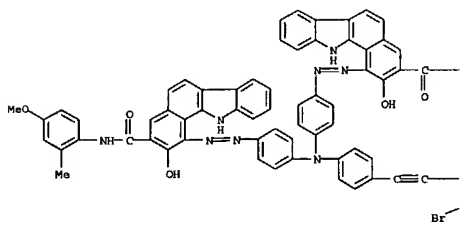
L6 ANSWER 9 OF 10 REGISTRY COPYRIGHT 2004 ACS on STN
RN 134461-14-6 REGISTRY
ITERATION INCOMPLETE
CN 11H-Benzo[a]carbazole-3-carboxamide, 1,1',1'',1'''-[(3,4-dibromo-2,5-thiophenediyl)bis[2,1-ethynediyl-4,1-phenylenenitrilobis(4,1-phenyleneazo)]]tetrakis[2-hydroxy-N-(4-methoxy-2-methylphenyl)- (9CI) (CA INDEX NAME)
MF C144 H100 Br2 N18 O12 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

PAGE 1-C

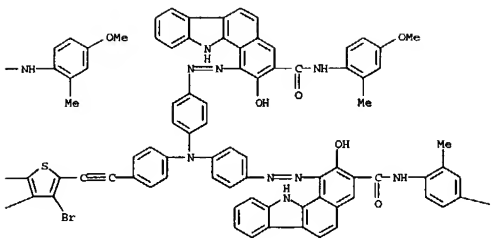
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 10 OF 10 REGISTRY COPYRIGHT 2004 ACS on STN
RN 134427-21-7 REGISTRY

PAGE 1-A



PAGE 1-B



PAGE 1-C

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

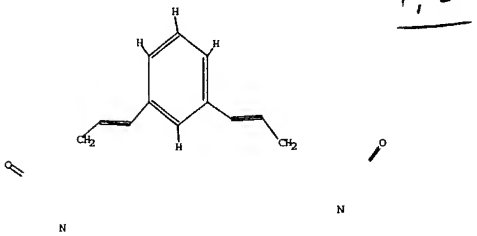
=>
Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssapta1623zct

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 07:05:38 ON 30 MAR 2004
FILE 'REGISTRY' ENTERED AT 07:05:38 ON 30 MAR 2004
COPYRIGHT (C) 2004 American Chemical Society (ACS)

1, 3



Structure attributes must be viewed using STN Express query preparation.

=> s l7
SAMPLE SEARCH INITIATED 07:06:09 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 372 TO ITERATE

100.0% PROCESSED 372 ITERATIONS (1 INCOMPLETE) 1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 6283 TO 8597
PROJECTED ANSWERS: 1 TO 80

L8 1 SEA SSS SAM L7

=> d

L8 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 196929-11-0 REGISTRY
ITERATION INCOMPLETE
CN 1,3-Benzenedicarboxylic acid, 5,5',5'',5''',5'''',5''''',5'''''',5''''''',5'''''''-[[5-(3,3-diethyl-1-triazenyl)-1,3-phenylene]bis[2,1-ethynediyl-5,1,3-benzenetriylbis(2,1-ethynediyl-5,1,3-benzenetriyldi-2,1-ethynediyl)]]octakis-, hexadecakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)
MF C202 H199 N3 O32
SR CA
LC STN Files: CA, CAPLUS

COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	18.54	181.99

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.69

=>
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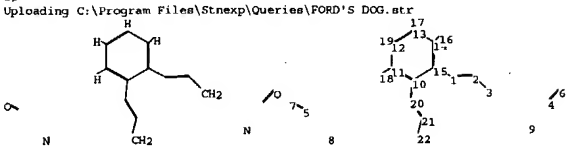


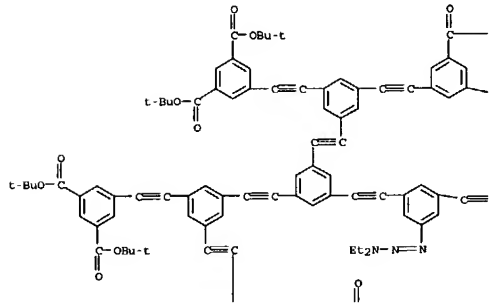
chain nodes :
1 2 3 4 5 6 7 8 9 16 17 18 19 20 21 22
ring nodes :
10 11 12 13 14 15
chain bonds :
1-2 1-15 2-3 4-6 5-7 10-20 11-18 12-19 13-17 14-16 20-21 21-22
ring bonds :
10-11 10-15 11-12 12-13 13-14 14-15
exact/norm bonds :
4-6 5-7
exact bonds :
1-2 1-15 2-3 10-20 11-18 12-19 13-17 14-16 20-21 21-22
normalized bonds :
10-11 10-15 11-12 12-13 13-14 14-15

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS 21:CLASS 22:CLASS

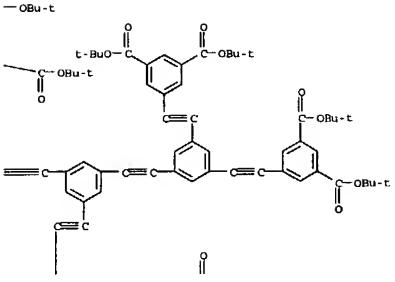
L7 STRUCTURE UPLOADED

=> d l7
L7 HAS NO ANSWERS
L7 STR

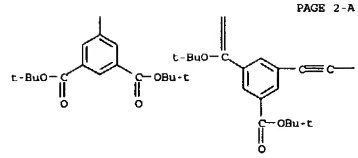
PAGE 1-A



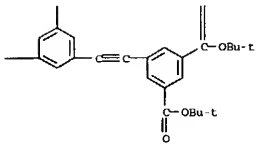
PAGE 1-B



PAGE 2-A



PAGE 2-B



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

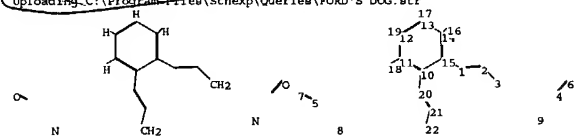
=> s l7 sss full
FULL SEARCH INITIATED 07:06:28 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 7968 TO ITERATE

100.0% PROCESSED 7968 ITERATIONS (42 INCOMPLETE) 51 ANSWERS
SEARCH TIME: 00.00.02

L9 51 SEA SSS FUL L7

1,3 SEARCH

=>
Uploading C:\Program Files\Stnexp\Queries\FORD'S DOG.str



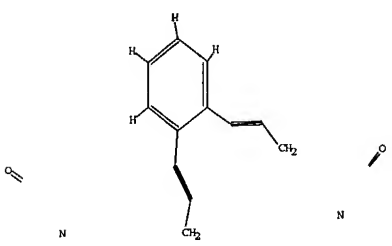
chain nodes :
1 2 3 4 5 6 7 8 9 16 17 18 19 20 21 22
ring nodes :
10 11 12 13 14 15

chain nodes :
1 2 3 4 5 6 7 8 9 16 17 18 19 20 21 22
ring nodes :
10 11 12 13 14 15
chain bonds :
1-2 1-15 2-3 4-6 5-7 10-20 11-18 12-19 13-17 14-16 20-21 21-22
ring bonds :
10-11 10-15 11-12 12-13 13-14 14-15
exact/norm bonds :
4-6 5-7
exact bonds :
1-2 1-15 2-3 10-20 11-18 12-19 13-17 14-16 20-21 21-22
normalized bonds :
10-11 10-15 11-12 12-13 13-14 14-15

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS 21:CLASS 22:CLASS

L12 STRUCTURE UPLOADED

=> d l12
L12 HAS NO ANSWERS
L12 STR

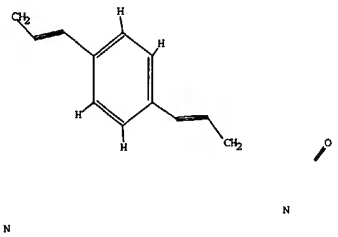


chain bonds :
1-2 1-15 2-3 4-6 5-7 10-20 11-18 12-19 13-17 14-16 20-21 21-22
ring bonds :
10-11 10-15 11-12 12-13 13-14 14-15
exact/norm bonds :
4-6 5-7
exact bonds :
1-2 1-15 2-3 10-20 11-18 12-19 13-17 14-16 20-21 21-22
normalized bonds :
10-11 10-15 11-12 12-13 13-14 14-15

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS 21:CLASS 22:CLASS

L10 STRUCTURE UPLOADED

=> d l10
L10 HAS NO ANSWERS
L10 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l10 sss full
FULL SEARCH INITIATED 07:08:14 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 14013 TO ITERATE

100.0% PROCESSED 14013 ITERATIONS (61 INCOMPLETE) 89 ANSWERS
SEARCH TIME: 00.00.02

L11 89 SEA SSS FUL L10

1,4 SEARCH

=>
Uploading C:\Program Files\Stnexp\Queries\FORD'S DOG.str

Structure attributes must be viewed using STN Express query preparation.

=> s l12 sss full
FULL SEARCH INITIATED 07:09:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 4835 TO ITERATE

100.0% PROCESSED 4835 ITERATIONS (5 INCOMPLETE) 20 ANSWERS
SEARCH TIME: 00.00.01

L13 20 SEA SSS FUL L12

1,2 SEARCH

=> fil caplus
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	488.25	651.70

	SINCE FILE ENTRY	TOTAL SESSION
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)		
CA SUBSCRIBER PRICE	0.00	-0.69

FILE 'CAPLUS' ENTERED AT 07:09:46 ON 30 MAR 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 30 Mar 2004 VOL 140 ISS 14
FILE LAST UPDATED: 29 Mar 2004 (20040329/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 06:35:51 ON 30 MAR 2004)

FILE 'REGISTRY' ENTERED AT 06:55:26 ON 30 MAR 2004
L1 STRUCTURE UPLOADED
L2 19 S L1
L3 465 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 06:56:46 ON 30 MAR 2004
L4 115 S L3

FILE 'REGISTRY' ENTERED AT 07:02:42 ON 30 MAR 2004
L5 STRUCTURE UPLOADED
L6 10 S L5
L7 STRUCTURE UPLOADED
L8 1 S L7
L9 51 S L7 SSS FULL
L10 STRUCTURE UPLOADED

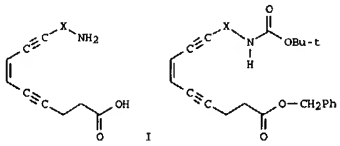
L11 89 S L10 SSS FULL
L12 STRUCTURE UPLOADED
L13 20 S L12 SSS FULL

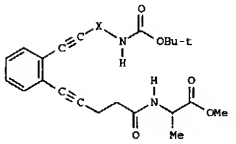
FILE 'CAPLUS' ENTERED AT 07:09:46 ON 30 MAR 2004

=> s l9 or l11 or l13
19 L9
25 L11
7 L13
L14 33 L9 OR L11 OR L13 ← ALL 3 COMBINED

=> d l14 1-33 ibib abs hitstr

L14 ANSWER 1 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:792122 CAPLUS
DOCUMENT NUMBER: 140:146484
TITLE: Synthesis and reactivity of enediynyl amino acids and peptides: a novel concept in lowering the activation energy of Bergman cyclisation by H-bonding and electrostatic interactions
AUTHOR(S): Basak, Amit; Sekhar Bag, Subhendu; Bdour, Hussam M. M.
CORPORATE SOURCE: Department of Chemistry, Indian Institute of Technology, Kharagpur, 721302, India
SOURCE: Chemical Communications (Cambridge, United Kingdom) (2003), (20), 2614-2615
CODEN: CHCOFS; ISSN: 1359-7345
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



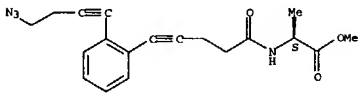


AB Novel enediynyl amino acids and peptides I (X = CH2), II (X = CH2, CH2CH2) and III (X = CH2, CH2CH2) were synthesized and their thermal reactivity towards Bergman cyclization was studied and compared with the earlier reported amino acid I (X = CH2CH2), which demonstrated, for the first time, the effect of H-bonding and electrostatic interactions in lowering the activation energy of Bergman cyclization.

IT 651733-37-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of enediynyl amino acids and peptides and effect of H-bonding and electrostatic interactions in lowering activation energy of Bergman cyclization)

RN 651733-37-8 CAPLUS
CN L-Alanine, N-[5-[2-(4-azido-1-butynyl)phenyl]-1-oxo-4-pentynyl]-, methyl ester (9CI) (CA INDEX NAME)

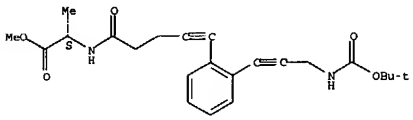
Absolute stereochemistry.



IT 651733-28-7P 651733-29-8P
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)
(preparation of enediynyl amino acids and peptides and effect of H-bonding and electrostatic interactions in lowering activation energy of Bergman cyclization and kinetics)

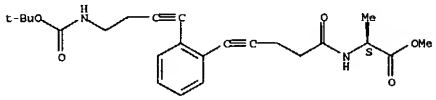
RN 651733-28-7 CAPLUS
CN L-Alanine, N-[5-[2-[3-[[(1,1-dimethylethoxy)carbonyl]amino]-1-propynyl]phenyl]-1-oxo-4-pentynyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 651733-29-8 CAPLUS
CN L-Alanine, N-[5-[2-[4-[[(1,1-dimethylethoxy)carbonyl]amino]-1-butynyl]phenyl]-1-oxo-4-pentynyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:714474 CAPLUS
DOCUMENT NUMBER: 139:391808
TITLE: Synthesis and Energy Transfer Efficiency of FRET Terminators Derived from Different Linkers
AUTHOR(S): Kumar, Shiv; Nampalli, Satyam; Finn, Patrick J.; Sudhakar Rao, T.; Chen, Chung-Yuan; Flick, Parke K.; Fuller, Carl W.
CORPORATE SOURCE: Amersham Biosciences, Piscataway, NJ, 08855, USA
SOURCE: Nucleosides, Nucleotides & Nucleic Acids (2003), 22(5-8), 1595-1598
CODEN: NNNAFY; ISSN: 1525-7770
PUBLISHER: Marcel Dekker, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English

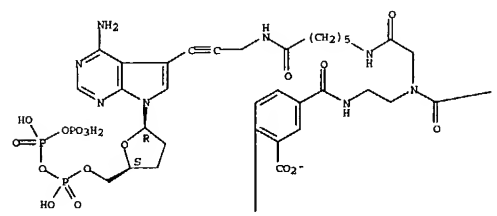
AB A number of different energy transfer dye labeled-cassettes were synthesized using aminoacid based trifunctional linkers and coupled to the propargylamino-substituted dideoxynucleoside-5'-triphosphates (ddNTPs). These terminators were evaluated for their energy transfer efficiency and DNA sequencing potential using thermostable DNA polymerase.

IT 625456-82-8P 625456-83-9P 625456-84-0P
RL: BUU (Biological use, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(synthesis and energy transfer efficiency of FRET terminators derived from different linkers)

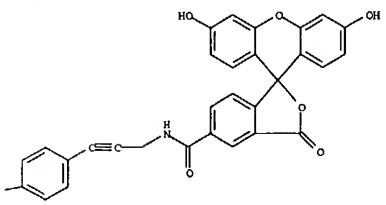
RN 625456-82-8 CAPLUS
CN Xanthylium, 9-[4-[[[2-[[2-[[6-[[3-[4-amino-7-[(2R,5S)-tetrahydro-5-(3,5,7,7-tetrahydroxy-3,5,7-trioxido-2,4,6-trioxa-3,5,7-triphosphahept-1-yl)-2-furanyl]-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-2-propynyl]amino]-6-oxohexyl]amino]-2-oxoethyl][4-[3-[[(3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-5-yl]carbonyl]amino]-1-propynyl]benzoyl]amino]ethyl]amino]carbonyl]-2-carboxyphenyl]-3,6-bis(dimethylamino)-2,7-dimethyl-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.

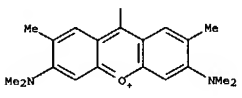
PAGE 1-A



PAGE 1-B



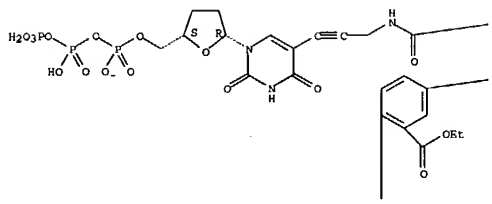
PAGE 2-A



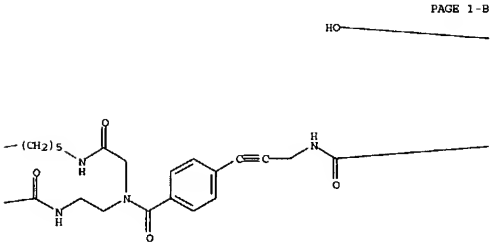
RN 625456-83-9 CAPLUS
CN Xanthylium, 9-[4-[[[2-[[4-[3-[[(3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-5-yl]carbonyl]amino]-1-propynyl]benzoyl][2-oxo-2-[[6-oxo-6-[[3-(1,2,3,4-tetrahydro-2,4-dioxo-1-[(2R,5S)-tetrahydro-5-(3,5,7,7-tetrahydroxy-3,5,7-trioxido-2,4,6-trioxa-3,5,7-triphosphahept-1-yl)-2-furanyl]-5-pyrimidinyl]-2-propynyl]amino]hexyl]amino]ethyl]amino]ethyl]amino]carbonyl]-2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethyl-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.

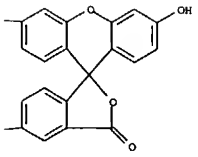
PAGE 1-A



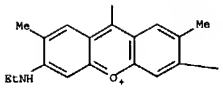
PAGE 1-B



PAGE 1-C



PAGE 2-A



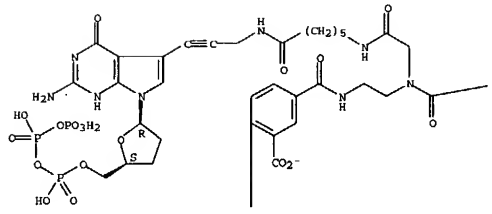
PAGE 2-B

NHEt

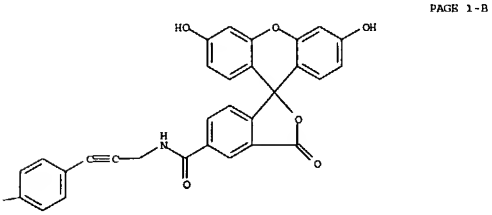
RN 625456-84-0 CAPLUS
CN Xanthylium, 3,6-diamino-9-[4-[[[2-[[2-[[6-[[3-[2-amino-4,7-dihydro-4-oxo-7-[(2R,5S)-tetrahydro-5-(3,5,7,7-tetrahydroxy-3,5,7-trioxido-2,4,6-trioxa-3,5,7-triphosphahept-1-yl)-2-furanyl]-1H-pyrrolo[2,3-d]pyrimidin-5-yl]-2-propynyl]amino]-6-oxohexyl]amino]-2-oxoethyl][4-[3-[[(3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-5-yl)carbonyl]amino]-1-propynyl]benzoyl]amino]ethyl]amino]carbonyl]-2-carboxyphenyl]-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.

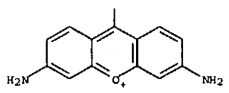
PAGE 1-A



PAGE 1-B



PAGE 2-A



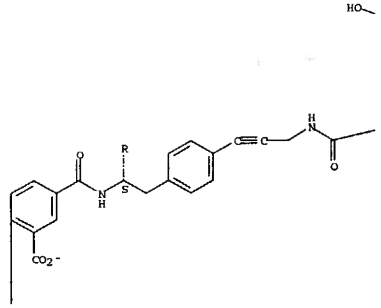
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 3 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:616857 CAPLUS
DOCUMENT NUMBER: 139:286905

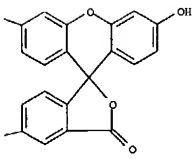
TITLE: Efficient incorporation of positively charged 2', 3'-dideoxynucleoside-5'-triphosphates by DNA polymerases and their application in direct-load' DNA sequencing
AUTHOR(S): Finn, Patrick J.; Bull, Matthew G.; Xiao, Haiguang; Phillips, Paula D.; Nelson, John R.; Grossmann, Greg; Nampalli, Satyam; McArdle, Bernard F.; Mamone, J. Anthony; Flick, Parke K.; Fuller, Carl W.; Kumar, Shiv
CORPORATE SOURCE: Amersham Biosciences, Piscataway, NJ, 08855-1327, USA
SOURCE: Nucleic Acids Research (2003), 31(16), 4769-4778
CODEN: NARHAD; ISSN: 0305-1048
PUBLISHER: Oxford University Press
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A series of charge-modified, dye-labeled 2', 3'-dideoxynucleoside-5'-triphosphates have been synthesized and evaluated as reagents for dye-terminator DNA sequencing. Unlike the commonly used dye-labeled terminators, these terminators possess a net pos. charge and migrate in the opposite direction to dye-labeled Sanger fragments during electrophoresis. Post-sequencing reaction purification is not required to remove unreacted nucleotide or associated breakdown products prior to electrophoresis. Thus, DNA sequencing reaction mixts. can be loaded directly onto a separating medium such as a sequencing gel. The charge-modified nucleotides have also been shown to be more efficiently incorporated by a number of DNA polymerases than regular dye-labeled dideoxynucleotide terminators or indeed normal dideoxynucleoside-5'-triphosphates.
IT 608520-72-5P 608520-73-6P 608520-86-1P
608520-87-2P
RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(efficient incorporation of pos. charged 2', 3'-dideoxynucleoside-5'-triphosphates by DNA polymerases and their application in direct-load' DNA sequencing)
RN 608520-72-5 CAPLUS
CN L-Lysinamide, N-[4-[3,6-bis(dimethylamino)-2,7-dimethylxanthylium-9-yl]-3-carboxybenzoyl]-4-[3-[[(3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-5-yl)carbonyl]amino]-1-propynyl]-L-phenylalanyl-N6-(trifluoroacetyl)-L-lysyl-N6-(trifluoroacetyl)-L-lysyl-N6-(trifluoroacetyl)-L-lysyl-N6-(trifluoroacetyl)-L-lysyl-N-[7-[[3-[4-amino-7-[(2R,5S)-tetrahydro-5-(3,5,7,7-tetrahydroxy-3,5,7-trioxido-2,4,6-trioxa-3,5,7-triphosphahept-1-yl)-2-furanyl]-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-2-propynyl]amino]-7-oxoheptyl]-N6-(trifluoroacetyl)-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.

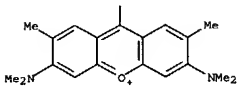
PAGE 1-A



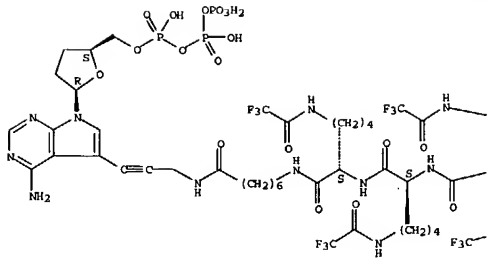
PAGE 1-B



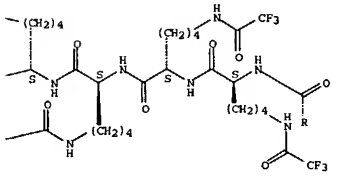
PAGE 2-A



PAGE 3-A



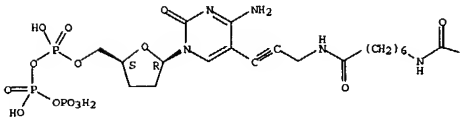
PAGE 3-B



RN 608520-73-6 CAPLUS
CN L-Lysine, N-[3-carboxy-4-(2,3,6,7,12,13,16,17-octahydro-1H,5H,11H,15H-xantheno[2,3,4-ij:5,6,7-i'j']diquinolizin-18-ium-9-yl)benzoyl]-4-[3-[[(3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-5-yl)carbonyl]amino]-1-propynyl]-L-phenylalanyl-N6-(trifluoroacetyl)-L-lysyl-N6-(trifluoroacetyl)-L-lysyl-N6-(trifluoroacetyl)-L-lysyl-N6-(trifluoroacetyl)-L-lysyl-N6-(trifluoroacetyl)-L-lysyl-N6-(trifluoroacetyl)-, inner salt, 7-amide with 5-[3-[(7-amino-1-oxoheptyl)amino]-1-propynyl]-2',3'-dideoxyuridine 5'-(tetrahydrogen triphosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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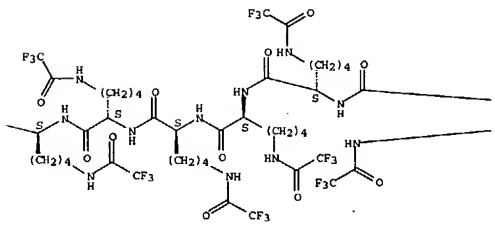
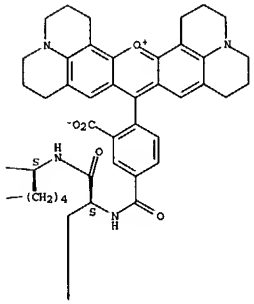


PAGE 1-C



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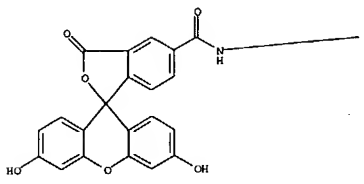

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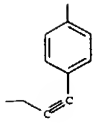
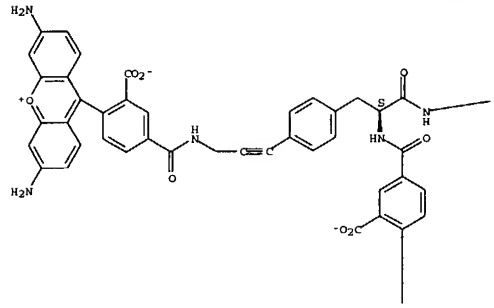


RN 608520-86-1 CAPLUS
CN Glycinamide, N-[4-[3,6-bis(dimethylamino)-2,7-dimethylxanthylium-9-yl]-3-carboxybenzoyl]-4-[3-[[3-carboxy-4-(3,6-diaminoxanthylium-9-yl)benzoyl]amino]-1-propynyl]-L-phenylalanyl-6-(trimethylammonio)-L-norleucyl-6-(trimethylammonio)-L-norleucyl-6-(trimethylammonio)-L-norleucyl-6-(trimethylammonio)-L-norleucyl-N-[7-[[3-[4-amino-7-[(2R,5S)-tetrahydro-5-(3,5,7,7-tetrahydroxy-3,5,7-trioxido-2,4,6-trioxa-3,5,7-triphosphahept-1-yl)-2-furanyl]-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-2-propynyl]amino]-7-oxoheptyl]-, bis(inner salt) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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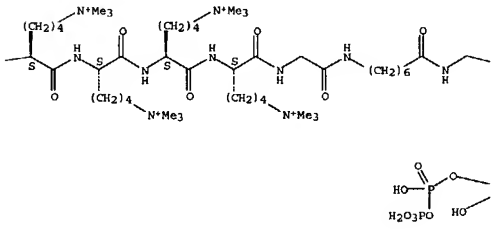

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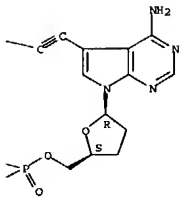

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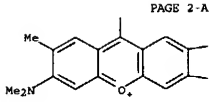

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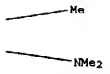
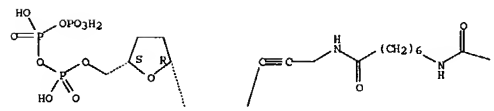


RN 608520-87-2 CAPLUS
CN Glycine, 4-[3-[[3-carboxy-4-(3,6-diaminoxanthylium-9-yl)benzoyl]amino]-1-propynyl]-N-[3-carboxy-4-(2,3,6,7,12,13,16,17-octahydro-1H,5H,11H,15H-xantheno[2,3,4-ij:5,6,7-i'j']diquinolizin-18-ium-9-yl)benzoyl]-L-phenylalanyl-6-(trimethylammonio)-L-norleucyl-6-(trimethylammonio)-L-norleucyl-6-(trimethylammonio)-L-norleucyl-6-(trimethylammonio)-L-norleucyl-, bis(inner salt), 6-amide with 5-[3-[(7-amino-1-oxoheptyl)amino]-1-propynyl]-2',3'-dideoxyuridine 5'-(tetrahydrogen triphosphate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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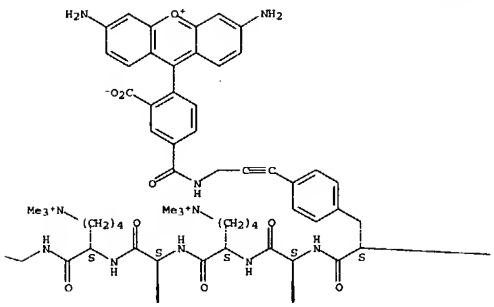

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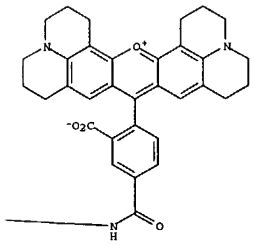

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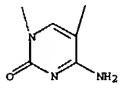
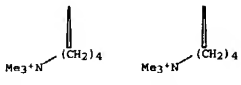


PAGE 2-B



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 4 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:581556 CAPLUS
DOCUMENT NUMBER: 140:159480
TITLE: Structural analysis of high affinity divalent phosphopeptide hybrids of spleen tyrosine kinase
AUTHOR(S): Catalina, M. Isabel; Dekker, Frank J.; Liskamp, Rob M. J.; Versluis, Cees; Maier, Claudia S.; Heck, Albert J. R.
CORPORATE SOURCE: Bijvoet Centre for Biomolecular Research and Utrecht Institute for Pharmaceutical Sciences (UIPS), Department of Biomolecular Mass Spectrometry, Utrecht University, Utrecht, 3584 CA, Neth.
SOURCE: International Journal of Mass Spectrometry (2003), 228(2-3), 879-890

CODEN: IMSPF8; ISSN: 1387-3806
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A set of synthetic phosphorylated peptidomimetic inhibitors of spleen tyrosine kinase (Syk), targeted towards its two tandem Src homol.-2 (SH2) domains, was studied by nano-electrospray tandem mass spectrometry in both pos. and neg. ionization mode. The design of the peptidomimetic compds. was based on the replacement of the intervening amino acid sequence of a Syk-binding di-phosphopeptide by non-peptide spacers based on either ethylene glycol or amino-propynyl-benzoate. Collision-induced dissociation (CID) spectra of the protonated mol. ions [M+H]+ allowed full characterization of the peptide hybrids. Preferred cleavage at the amide bond N-terminal to the adjacent polyethylene glycol (PEG) and the propynyl-benzoate (PrB) linkers was observed. In general, it thus appears that preferred sequential amino acid fragmentation takes place from the N-terminus up to the linker mol. followed by subsequent internal fragmentation starting at the C-terminus. Addnl., tandem CID spectra of the doubly de-protonated mol. ions [M-2H]2- of every compound showed the m/z 79/97 phosphate-specific ions plus a remarkably intense ion at m/z 297. The mechanism proposed for the m/z 297-ion occurrence goes through a five-membered ring formation giving an N-terminal pyroGlu structure as derived from MSn spectra.

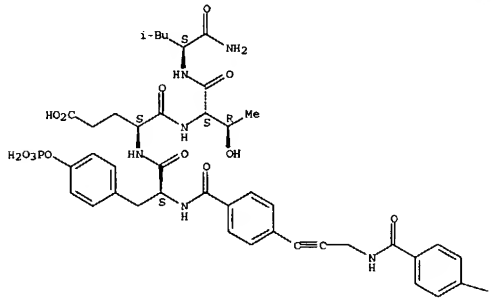
IT 565215-26-1
RL: PRP (Properties)
(fragmentation pattern of phosphorylated peptidomimetic inhibitors of spleen tyrosine kinase by nano-electrospray tandem mass spectrometry in both pos. and neg. ionization mode)

RN 565215-26-1 CAPLUS

CN L-Leucinamide, N-acetyl-O-phosphono-L-tyrosyl-L-threonylglycyl-L-leucyl-4-(3-amino-1-propynyl)benzoyl-4-(3-amino-1-propynyl)benzoyl-O-phosphono-L-tyrosyl-L-α-glutamyl-L-threonyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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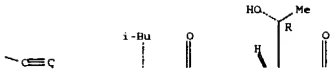

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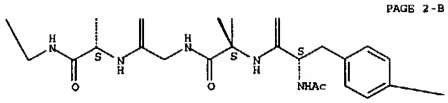


PAGE 2-C

$-OPO_3H_2$

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 5 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:403795 CAPLUS
DOCUMENT NUMBER: 139:130257
TITLE: A europium chelate for quantitative point-of-care immunoassays using direct surface measurement
AUTHOR(S): von Lode, Piia; Rosenberg, Jaana; Pettersson, Kim; Takalo, Harri
CORPORATE SOURCE: Department of Biotechnology, University of Turku, Turku, FIN-20520, Finland
SOURCE: Analytical Chemistry (2003), 75(13), 3193-3201

CODEN: ANCHAM; ISSN: 0003-2700
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB New labels and assay techniques are needed to improve the sensitivity and quantitativeness of point-of-care immunotesting while sustaining the rapidity and ease of use of the assays. We synthesized a novel, intrinsically fluorescent nonadentate europium chelate with two chromophores and hydrophilic α-galactose side groups. The chelate is highly fluorescent, soluble in water, and provides effective shielding of Eu from water. The performance of the nonadentate chelate was compared with a heptadentate chelate in a dry reagent immunoassay for human chorionic gonadotropin (hCG). After 15-min incubation and washing, time-resolved fluorescence was measured directly from a wet or dried well surface. Contrary to the heptadentate label, the effect of aqueous quenching on the nonadentate label was found to be insignificant, with calculated anal. detection limits (background + 3 SD) of 0.9 and 0.7 IU/L hCG for wet and dry measurements, resp., and a linear range up to 5000 IU/L. The CVs for the new label were <8% at the cutoff of 25 IU/L and above in both whole blood and plasma. The novel nonadentate label facilitates short turnaround times and simple instrumentation due to the absence of all signal development steps, at the same time retaining an excellent immunoassay performance.

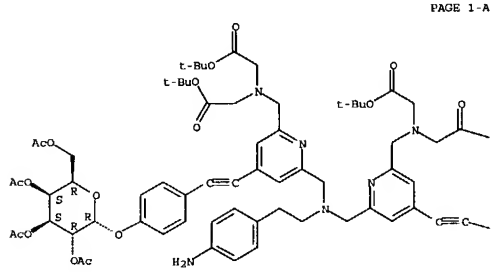
IT 565230-36-6P 565230-37-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(europium chelate for quant. point-of-care immunoassays using direct surface measurement)

RN 565230-36-6 CAPLUS

CN Glycine, N,N'-[[[2-(4-aminophenyl)ethyl]imino]bis[methylene[4-[[4-[(2,3,4,6-tetra-O-acetyl-α-D-galactopyranosyl)oxy]phenyl]ethynyl]-6,2-pyridinediyl]methylene]]bis[N-[2-(1,1-dimethylethoxy)-2-oxoethyl]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

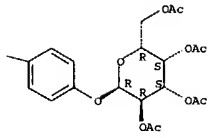
Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

$-OBu-t$

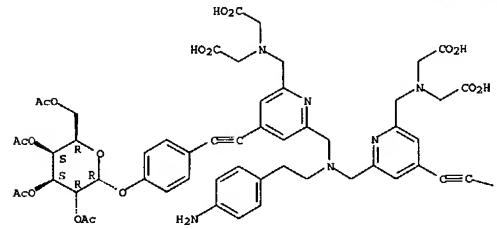


RN 565230-37-7 CAPLUS

CN Glycine, N,N'-[[[2-(4-aminophenyl)ethyl]imino]bis[methylene[4-[[4-[(2,3,4,6-tetra-O-acetyl-α-D-galactopyranosyl)oxy]phenyl]ethynyl]-6,2-pyridinediyl]methylene]]bis[N-(carboxymethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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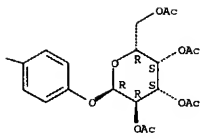
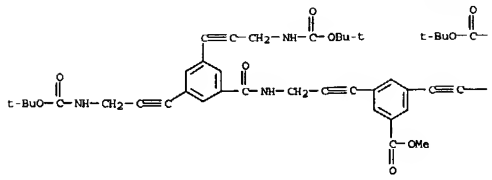


REFERENCE COUNT: 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 6 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:325377 CAPLUS
DOCUMENT NUMBER: 139:133745
TITLE: Rigidified multivalent lactose molecules and their interactions with mammalian galectins: A route to selective inhibitors
AUTHOR(S): Vrasidas, Ioannis; Andre, Sabine; Valentini, Paola; Bock, Corina; Lensch, Martin; Kaltner, Herbert; Liskamp, Rob M. J.; Gabius, Hans-J.; Pieters, Roland J.
CORPORATE SOURCE: Department of Medicinal Chemistry, Utrecht Institute for Pharmaceutical Sciences, Utrecht University, Utrecht, NL-3508 TB, Neth.
SOURCE: Organic & Biomolecular Chemistry (2003), 1(5), 803-810
CODEN: OBCRAK; ISSN: 1477-0520
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 139:133745
AB New and rigid multivalent lactose mols. were prepared The structures contain lactose-2-aminothiazoline units at the periphery that were formed from a cyclization of the thiourea sulfur onto the triple bond of the spacer. The lactosides were evaluated as inhibitors against lectin binding in a solid phase inhibition assay. In this assay the glycoprotein asialofetuin was immobilized onto the surface of micro-titer plate wells, mimicking cell surface presentation, while mammalian galectins-1, -3 or -5 were in solution Between the three galectins, the folding pattern and sequence are closely related but the topol. of presentation of the carbohydrate recognition domains differs. Strong multivalent effects were observed for the tetravalent lactoside in the inhibition of galectin-3 binding with enhancements of almost 4300-fold compared to lactose. Remarkable selectivity was obtained in the inhibition since relative potencies of the tetravalent lactoside with the proto type galectins-1 and -5 did not exceed a factor of 143 relative to lactose. The binding of the lactosides to galectin-3 was also studied by fluoreascence spectroscopy with all components in solution These studies showed no multivalency effects in the inherent binding affinities.
IT 566920-08-9P 566920-13-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of rigidified multivalent lactose mols. and a route to mammalian galectins selective inhibitors)
RN 566920-08-9 CAPLUS
CN Benzoic acid, 3,5-bis[3-[[3,5-bis[3-[[(1,1-dimethylethoxy)carbonyl]amino]-1-propynyl]benzoyl]amino]-1-propynyl]-, methyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



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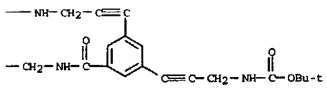
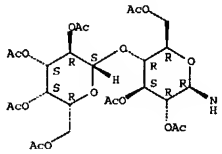


RN 566920-13-6 CAPLUS
CN Benzoic acid, 3,5-bis[3-[[3,5-bis[(Z)-[2-[[2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-β-D-galactopyranosyl)-β-D-glucopyranosyl]amino]-5(4H)-thiazolylidene]methyl]benzoyl]amino]-1-propynyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



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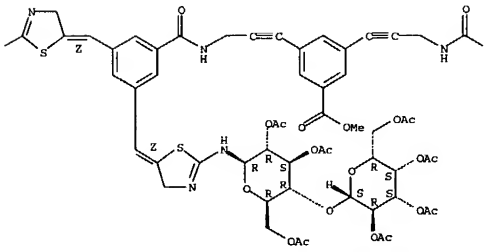
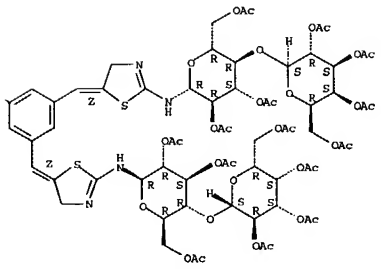


PAGE 1-C

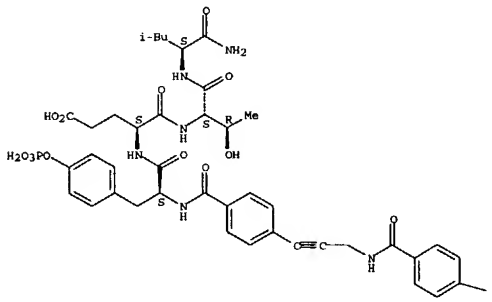


REFERENCE COUNT: 60 THERE ARE 60 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

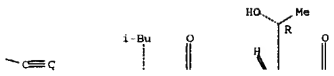
L14 ANSWER 7 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:236050 CAPLUS
DOCUMENT NUMBER: 139:113514
TITLE: Amino propynyl benzoic acid building block in rigid spacers of divalent ligands binding to the Syk SH2 domains with equally high affinity as the natural ligand
AUTHOR(S): Dekker, Frank J.; de Mol, Nico J.; Fischer, Marcel J. E.; Liskamp, Rob M. J.
CORPORATE SOURCE: Utrecht Institute of Pharmaceutical Sciences, Department of Medicinal Chemistry, Utrecht University, TB Utrecht, 3508, Neth.
SOURCE: Bioorganic & Medicinal Chemistry Letters (2003), 13(7), 1241-1244
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The construction of rigid spacers composed of amino propynyl benzoic acid building blocks is described. These spacers were used to link two phosphopeptide ligand sites towards obtaining divalent ligands with a high affinity for Syk tandem SH2 domains, which are important in signal transduction. The spacer containing two of those rigid building blocks led to a ligand which was as active as the natural ligand, indicating that this building block can be used in the design and synthesis of high affinity divalent constructs that can successfully interfere with crucial protein-protein interactions.
IT 565215-26-1
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(amino propynyl benzoic acid building block in rigid spacers of divalent ligand peptide binding to Syk kinase SH2 domains)
RN 565215-26-1 CAPLUS
CN L-Leucinamide, N-acetyl-O-phosphono-L-tyrosyl-L-threonylglycyl-L-leucyl-4-(3-amino-1-propynyl)benzoyl-4-(3-amino-1-propynyl)benzoyl-O-phosphono-L-tyrosyl-L-α-glutamyl-L-threonyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



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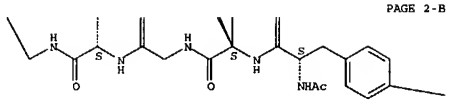


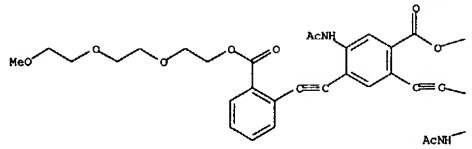
PAGE 2-C

REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 8 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:22299 CAPLUS
DOCUMENT NUMBER: 138:304755
TITLE: A new strategy for folding oligo(m-phenylene ethynylenes)
AUTHOR(S): Yang, Xiaowu; Brown, Amy L.; Furukawa, Mako; Li, Shoujian; Gardinier, Wendy E.; Bukowski, Eric J.; Bright, Frank V.; Zheng, Chong; Zeng, Xiao Cheng; Gong, Bing
CORPORATE SOURCE: Department of Chemistry, University at Buffalo, The State University of New York, Buffalo, NY, 14260, USA
SOURCE: Chemical Communications (Cambridge, United Kingdom) (2003), (1), 56-57
CODEN: CHCOFS; ISSN: 1359-7345
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Backbone-rigidified oligo(m-phenylene ethynylenes) fold into crescent or helical conformations in non-polar organic solvents.
IT **510721-31-0 510721-33-2**
RL: PRP (Properties)
(crescent or helical conformations of oligo(m-phenylene ethynylenes) in non-polar organic solvents)
RN 510721-31-0 CAPLUS
CN Benzoic acid, 5-(acetylamino)-2-[[2-(acetylamino)-5-[[2-(acetylamino)-5-[(1E)-3,3-diethyl-1-triazenyl]-4-(methoxycarbonyl)phenyl]ethynyl]-4-[(octyloxy)carbonyl]phenyl]ethynyl]-4-[[4-(acetylamino)-2-[(octyloxy)carbonyl]-5-[[2-(1-oxo-2,5,8,11-tetraoxadodec-1-yl)phenyl]ethynyl]phenyl]ethynyl]-, octyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-A



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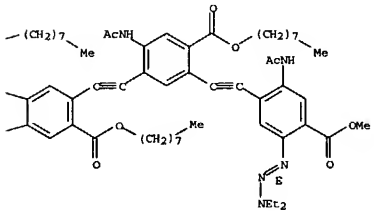
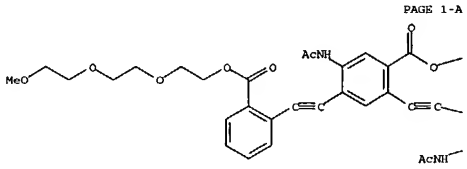


RN 510721-33-2 CAPLUS
CN Benzoic acid, 5-(acetylamino)-2-[[2-(acetylamino)-5-[[2-(acetylamino)-5-[[2-(acetylamino)-5-[(1E)-3,3-diethyl-1-triazenyl]-4-[(octyloxy)carbonyl]phenyl]ethynyl]-4-[(octyloxy)carbonyl]phenyl]ethynyl]-4-[(octyloxy)carbonyl]phenyl]ethynyl]-4-[[4-(acetylamino)-2-[(octyloxy)carbonyl]-5-[[2-(1-oxo-2,5,8,11-tetraoxadodec-1-yl)phenyl]ethynyl]phenyl]ethynyl]-, octyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-A



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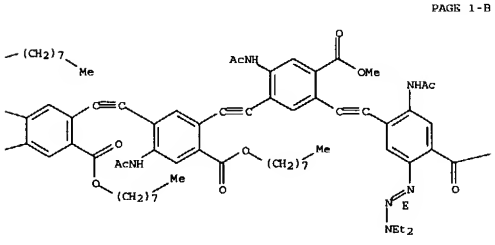

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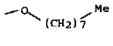
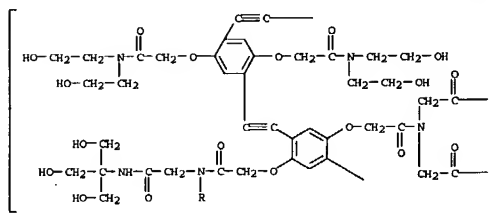


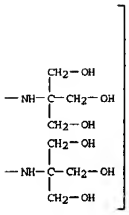
REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 9 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:22290 CAPLUS
DOCUMENT NUMBER: 138:288051
TITLE: Synthesis of a nonionic water soluble semiconductive polymer
AUTHOR(S): Kuroda, Kenichi; Swager, Timothy M.
CORPORATE SOURCE: Department of Chemistry, Massachusetts Institute of Technology, Cambridge, MA, 02139, USA
SOURCE: Chemical Communications (Cambridge, United Kingdom) (2003), (1), 26-27
CODEN: CHCOFS; ISSN: 1359-7345
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A new nonionic water-soluble fluorescent conjugated poly(phenylene ethynylene) is reported with hydroxyl and amide side chains surrounding an aromatic polymer backbone.
IT **505065-24-7P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(synthesis of nonionic water soluble semiconductive poly(phenylene ethynylene))
RN 505065-24-7 CAPLUS
CN Poly[[2,5-bis[2-[bis(2-[[2-hydroxy-1,1-bis(hydroxymethyl)ethyl]amino]-2-oxoethyl]amino]-2-oxoethoxy]-1,4-phenylene]-1,2-ethynediyl[2,5-bis[2-[bis(2-hydroxyethyl)amino]-2-oxoethoxy]-1,4-phenylene]-1,2-ethynediyl] (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



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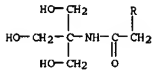

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L14 ANSWER 10 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:790620 CAPLUS
DOCUMENT NUMBER: 138:153742
TITLE: Sialoside clusters as potential ligands for siglecs (sialoadhesins)
AUTHOR(S): Gan, Zhonghong; Roy, Rene
CORPORATE SOURCE: Department of Chemistry, Center for Research in Biopharmaceuticals, University of Ottawa, Ottawa, ON, K1N 6N5, Can.
SOURCE: Canadian Journal of Chemistry (2002), 80(8), 908-916
CODEN: CJCHAG; ISSN: 0008-4042
PUBLISHER: National Research Council of Canada
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 138:153742
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

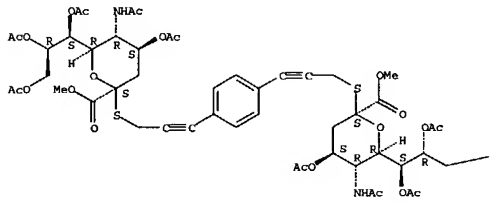
AB Clusters of O- and S-linked α-sialosides with valencies of two to four were constructed to serve as potential multivalent inhibitors towards sialoadhesins (siglecs). Thus, O- and S-prop-2-ynyl α-sialosides, together with 4-iodophenyl sialoside were prepared from an acetochloroneuraminic acid derivative using silver salicylate and propargyl alc. or phase-transfer catalysis. Oxidative acetylenic homocoupling under Glazer conditions (CuCl, O2) provided 1,3-diynes I (X = O or S; Y = -CH2C.tplbond.CC.tplbond.CCH2-) in 83-86% yields. Palladium catalyzed cross-coupling of O-prop-2-ynyl sialoside with 4-iodophenyl sialoside using Pd2(dba)3 and PPh3 gave nonsym. dimer I (X = O; Y = -CH2C.tplbond.C-pC6H4-) (82%). Alternatively, sym. clusters were then prepared as above under Sonogashira cross-coupling conditions with 1,4-diiodobenzene, 1,3,5-triiodobenzene, and finally 1,2,4,5-tetraiodobenzene to provide both O- and S-linked dimers I (X = O or S; Y = -CH2C.tplbond.C-pC6H4-C.tplbond.CCH2-) in 93% and 88% yield, resp., trimers II (X = O or S) in 81% and 76% yield, resp., while only O-linked tetramer III was prepared in 87% yield. Finally, treatment of the O-linked prop-2-ynyl sialoside with Grubbs' metathesis catalyst Cl2Ru(PCy3)2=CHPh gave, as expected, benzene-annulation regioisomeric trimers IV and V in 68% yield.

IT 494848-87-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of sialoside clusters as potential ligands for siglecs using a variety of metal-catalyzed cross-coupling reactions of propynyl α-sialosides)

RN 494848-87-2 CAPLUS
CN α-Neuraminic acid, 2,2'-S-(1,4-phenylenedi-2-propyne-3,1-diyl)bis[N-acetyl-2-thio-, dimethyl ester, 4,4',7,7',8,8',9,9'-octaacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B

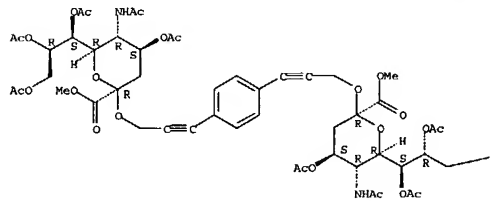
—OAc

IT 494848-85-0P 494848-89-4P 494848-91-8P
494848-93-0P 494848-99-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of sialoside clusters as potential ligands for siglecs using a variety of metal-catalyzed cross-coupling reactions of propynyl α-sialosides)

RN 494848-85-0 CAPLUS
CN α-Neuraminic acid, 2,2'-O-(1,4-phenylenedi-2-propyne-3,1-diyl)bis[N-acetyl-, dimethyl ester, 4,4',7,7',8,8',9,9'-octaacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



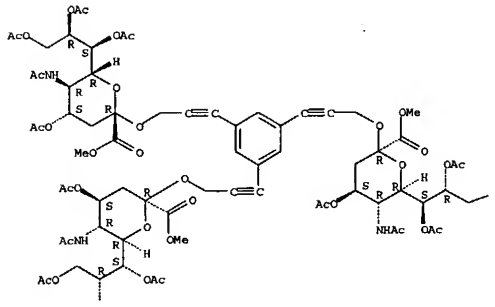
PAGE 1-B

—OAc

RN 494848-89-4 CAPLUS
CN α-Neuraminic acid, 2,2',2''-O-(1,3,5-benzenetriyltri-2-propyne-3,1-diyl)tris[N-acetyl-, trimethyl ester, 4,4',4'',7,7',7'',8,8',8'',9,9',9''-dodecaacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B

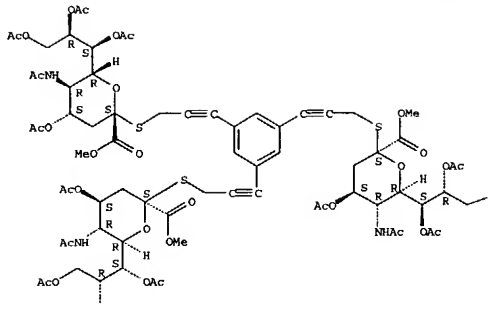
—OAc

PAGE 2-A

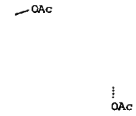
RN 494848-91-8 CAPLUS
CN α-Neuraminic acid, 2,2',2''-S-(1,3,5-benzenetriyltri-2-propyne-3,1-diyl)tris[N-acetyl-2-thio-, trimethyl ester, 4,4',4'',7,7',7'',8,8',8'',9,9',9''-dodecaacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B

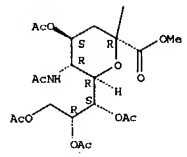


PAGE 2-A

RN 494848-93-0 CAPLUS
CN α-Neuraminic acid, 2,2',2'',2'''-O-(1,2,4,5-benzenetetrayltetra-2-propyne-3,1-diyl)tetrakis[N-acetyl-, tetramethyl ester, 4,4',4'',4'''-(7,7',7'',7''',8,8',8'',8''',9,9',9'',9''')-hexadecaacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

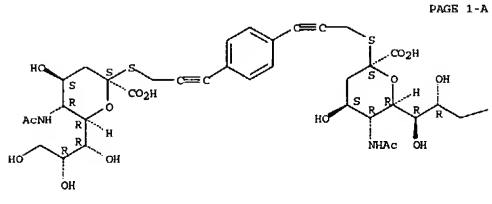
PAGE 2-A



RN 494848-99-6 CAPLUS
CN α-Neuraminic acid, 2,2'-S-(1,4-phenylenedi-2-propyne-3,1-diyl)bis[N-acetyl-2-thio- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A

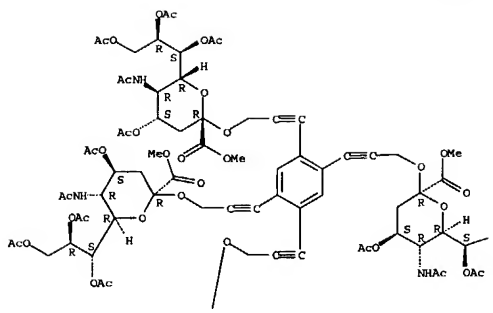


PAGE 1-B

REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 11 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:736221 CAPLUS
DOCUMENT NUMBER: 137:247507
TITLE: Preparation of bisalkynylarenes as tryptase inhibitors
INVENTOR(S): Baer, Thomas; Stadlwieser, Josef; Wollin, Stefan-Lutz; Zech, Karl; Sommerhoff, Christian P.; Martin, Thomas; Ulrich, Wolf-Ruediger
PATENT ASSIGNEE(S): Altana Pharma A.-G., Germany
SOURCE: PCT Int. Appl., 38 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1

PAGE 1-A



PAGE 1-B

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002074733	A2	20020926	WO 2002-EP2675	20020312
WO 2002074733	A3	20030925		
W: AE, AL, AU, BA, BG, BR, CA, CN, CO, CU, CZ, DZ, EC, EE, GE, HR, HU, ID, IL, IN, IS, JP, KR, LT, LV, MA, MK, MX, NO, NZ, PH, PL, RO, SG, SI, SK, TN, UA, US, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
EP 1370518	A2	20031217	EP 2002-724222	20020312
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				

PRIORITY APPLN. INFO.: EP 2001-106541 A 20010315
WO 2002-EP2675 W 20020312

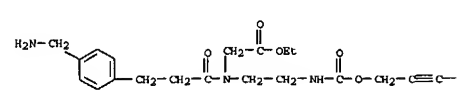
OTHER SOURCE(S): MARPAT 137:247507

AB K1A1MA2K2 (M = bispropynylphenyl, bispropynyloxyphenyl, bispropynylpyridyl, bispropynyltriazinyl, etc.; A1 = A3B1A5; A2 = A4B2A6; K1 = B3X1, B3Y1, B3Z1B5X1; K2 = B4X2, B4Y2, B4Z2B6X2; A3, A4 = CO, O2C, CONH, NHCO2, NHCONH, etc.; A5 = CONR2, O2CNR2, etc.; A6 = CONR3, O2CNR3; B1, B2 = alkylene, cyclohexylene, phenylene, piperazinylene, piperidinylene; B3-B5 = bond, alkylene; X1, X2 = amino, aminocarbonyl, amidino; Y1, Y2 = imidazol-1-yl; Z1, Z2 = pyridinylene, piperidinylene, indazolylene, indolylene, phenylene, cyclohexylene), were prepared Thus, O-(benzotriazol-1-yl)-N,N,N',N'-tetramethyluronium hexafluorophosphate (HBTU) is added to a suspension of 3-[4-(tert-butoxycarbonylaminomethyl)phenyl]propionic acid (preparation given) in CH2Cl2 and DIPEA, and the mixture is stirred at RT for 20 min.; 1,4-bis[N-(ethoxycarbonylmethyl)amino-3-(ethylaminocarbonyloxy)prop-1-ynyl]benzene is then added, and the mixture is stirred at RT overnight to give 1,4-bis[N-[3-(4-tert-butoxycarbonylaminomethylphenyl)propionyl]-N-(ethoxycarbonylmethyl)amino-3-(ethylaminocarbonyloxy)prop-1-ynyl]benzene. The latter was stirred with HCl in dioxane for 4 h to give 1,4-bis[N-[3-(4-aminomethylphenyl)propionyl]-N-(ethoxycarbonylmethyl)amino-3-(ethylaminocarbonyloxy)prop-1-ynyl]benzene dihydrochloride. The latter inhibited human tryptase with Kiapp = 0.035 μM.

IT **460742-79-4P 460742-81-8P 460742-85-2P**
460742-87-4P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of bisalkynylarenes as tryptase inhibitors)

RN 460742-79-4 CAPLUS
CN Glycine, N,N'-[1,4-phenylenebis(2-propyne-3,1-diyloxycarbonylimino-2,1-ethanediyl)]bis[N-[3-[4-(aminomethyl)phenyl]-1-oxopropyl]-, diethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



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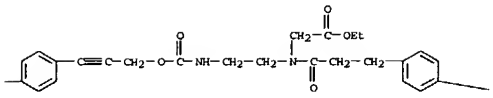
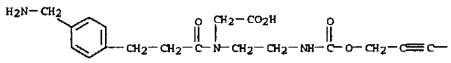


PAGE 1-C

RN 460742-81-8 CAPLUS
CN Glycine, N,N'-[1,4-phenylenebis(2-propyne-3,1-diyloxycarbonylimino-2,1-ethanediyl)]bis[N-[3-[4-(aminomethyl)phenyl]-1-oxopropyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



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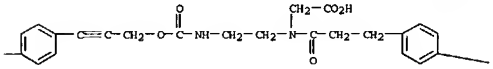
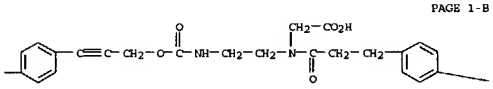


PAGE 1-C

RN 460742-85-2 CAPLUS
CN Glycine, N,N'-[1,4-phenylenebis(2-propyne-3,1-diyloxycarbonylimino-2,1-ethanediyl)]bis[N-[3-[4-(aminomethyl)phenyl]-1-oxopropyl]-, diethyl ester, dihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-B

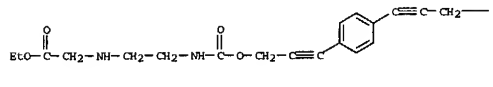


PAGE 1-C

IT 460742-94-3P 460742-96-5P 460742-98-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of bisalkynylarenes as tryptase inhibitors)

RN 460742-94-3 CAPLUS
CN Glycine, N,N'-[1,4-phenylenebis(2-propyne-3,1-diyloxycarbonylimino-2,1-ethanediyl)]bis-, diethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



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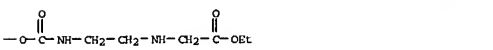
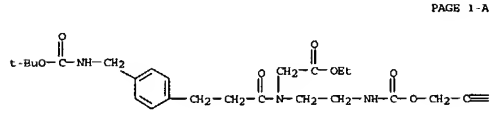


RN 460742-96-5 CAPLUS
CN Glycine, N,N'-[1,4-phenylenebis(2-propyne-3,1-diyloxycarbonylimino-2,1-ethanediyl)]bis[N-[3-[4-[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]phenyl]-1-oxopropyl]-, diethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



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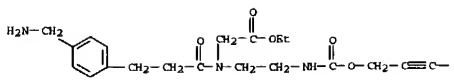
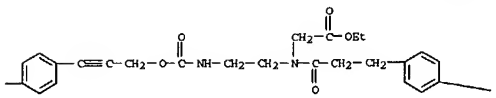


●2 HCl

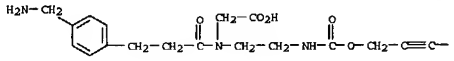
PAGE 1-B



PAGE 1-C

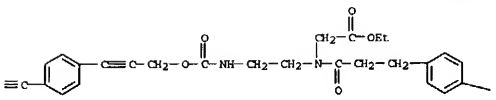
RN 460742-87-4 CAPLUS
CN Glycine, N,N'-[1,4-phenylenebis(2-propyne-3,1-diyloxycarbonylimino-2,1-ethanediyl)]bis[N-[3-[4-(aminomethyl)phenyl]-1-oxopropyl]-, dihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A



●2 HCl

PAGE 1-B



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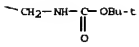
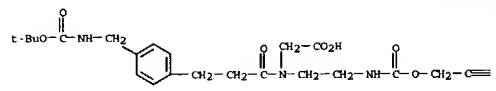


RN 460742-98-7 CAPLUS
CN Glycine, N,N'-[1,4-phenylenebis(2-propyne-3,1-diyloxycarbonylimino-2,1-ethanediyl)]bis[N-[3-[4-[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]phenyl]-1-oxopropyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



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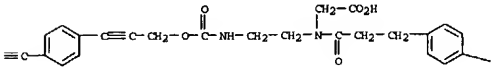
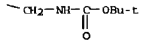


PAGE 1-C



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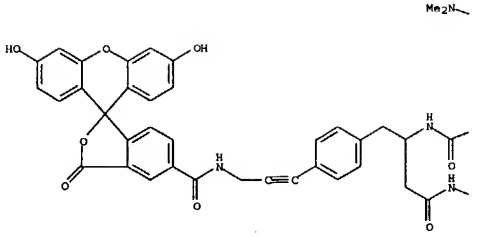

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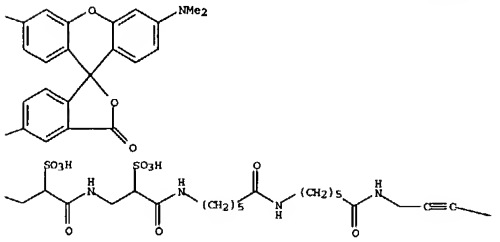


L14 ANSWER 12 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:554920 CAPLUS
DOCUMENT NUMBER: 137:305335
TITLE: Synthesis and application of charge-modified dye-labeled dideoxynucleoside-5'-triphosphates to "direct-load" DNA sequencing
AUTHOR(S): Finn, Patrick J.; Sun, Lei; Nampalli, Satyam; Xiao, Haiguang; Nelson, John R.; Mamone, J. Anthony; Grossmann, Greg; Flick, Parke K.; Fuller, Carl W.; Kumar, Shiv
CORPORATE SOURCE: Amersham Biosciences, Piscataway, NJ, 08855-1327, USA
SOURCE: Nucleic Acids Research (2002), 30(13), 2877-2885
CODEN: NARHAD; ISSN: 0305-1048
PUBLISHER: Oxford University Press
DOCUMENT TYPE: Journal
LANGUAGE: English

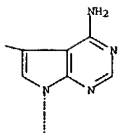
AB A novel series of charge-modified, dye-labeled 2',3'-dideoxynucleoside-triphosphate terminators were synthesized and evaluated as reagents for DNA sequencing. These terminators possess an advantage over existing reagents in that no purification is required to remove unreacted nucleotide or associated breakdown products prior to electrophoretic separation of the sequencing fragments. This obviates the need for a time consuming post-reaction work up, allowing direct loading of DNA sequencing reaction mixts. onto a slab gel. Thermo Sequenase II DNA polymerase poorly incorporates the charge-modified terminators compared with regular dye-labeled terminators. However, extending the linker arm between dye and nucleotide and using a mutant form of a related DNA polymerase can in part mitigate the decrease in substrate efficiency. We also present evidence that these charge-modified terminators can relieve gel compression artifacts when used with dGTP in sequencing reactions.

IT 470666-77-4P 470666-78-5P
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(synthesis and application of charge-modified dye-labeled ddNTPs to "direct-load" DNA sequencing)

RN 470666-77-4 CAPLUS
CN β-Alaninamide, N-[3-[[[3',6'-bis(dimethylamino)-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-5-yl]carbonyl]amino]-4-[4-[3-[[(3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-5-yl)carbonyl]amino]-1-propynyl]phenyl]-1-oxobutyl]-2-sulfo-β-alanyl-N-[6-[[6-[[3-[4-amino-7-[(2R,5S)-tetrahydro-5-(3,5,7,7-tetrahydroxy-3,5,7-trioxido-2,4,6-trioxa-3,5,7-triphosphahept-1-yl)-2-furanyl]-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-2-propynyl]amino]-6-oxohexyl]amino]-6-oxohexyl]-2-sulfo- (9CI) (CA INDEX NAME)

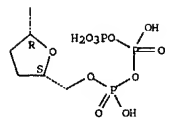
Absolute stereochemistry.

PAGE 1-C

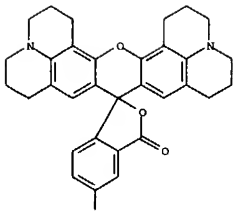


PAGE 1-A

PAGE 2-C



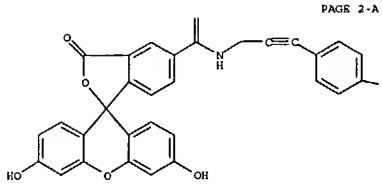
PAGE 1-B



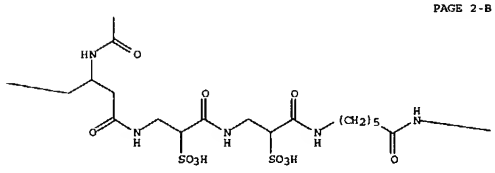
RN 470666-78-5 CAPLUS
CN β-Alaninamide, N-[4-[4-[3-[[[3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-5-yl]carbonyl]amino]-1-propynyl]phenyl]-3-[[(2',3',6',7',12',13',16',17'-octahydro-3-oxospiro[isobenzofuran-1(3H),9'-[1H,5H,9H,11H,15H]xantheno[2,3,4-ij:5,6,7-i'j']diquinolizin]-5-yl)carbonyl]amino]-1-oxobutyl]-2-sulfo-β-alanyl-N-[6-[[6-[[3-[2-amino-4,7-dihydro-4-oxo-7-[(2R,5S)-tetrahydro-5-(3,5,7,7-tetrahydroxy-3,5,7-trioxido-2,4,6-trioxa-3,5,7-triphosphahept-1-yl)-2-furanyl]-1H-pyrrolo[2,3-d]pyrimidin-5-yl]-2-propynyl]amino]-6-oxohexyl]amino]-6-oxohexyl]-2-sulfo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 2-A



PAGE 2-B



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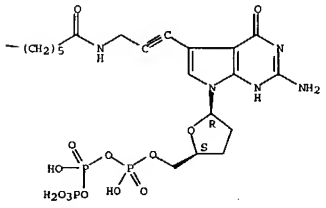


REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 13 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:344030 CAPLUS

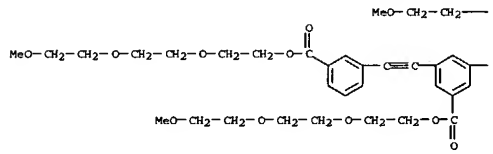
DOCUMENT NUMBER: 137:79329
TITLE: The Size-Selective Synthesis of Folded Oligomers by Dynamic Templation
AUTHOR(S): Nishinaga, Tohru; Tanatani, Aya; Oh, Keunchan; Moore, Jeffrey S.
CORPORATE SOURCE: Roger Adams Laboratory, Department of Chemistry and Materials Science and Engineering, University of Illinois at Urbana-Champaign, Urbana, IL, 61801, USA
SOURCE: Journal of the American Chemical Society (2002), 124(21), 5934-5935
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A dynamic pool of m-phenylene ethynylene oligomers generated by sequence ligation using the imine metathesis reaction was equilibrated under a variety of conditions, and the mixture of products was analyzed by HPLC. The equilibration was performed in the presence and absence of rodlike ligand (I), which exhibits an affinity for the helical oligomers that is length specific. Among the eight oligomers generated during metathesis equilibrium, the formation of 22-mer was enhanced in acetonitrile in the presence of I. This particular oligomer has the highest binding affinity for I. Quant. anal. by HPLC of the products indicated that 22-mer was produced in 66% yield in the presence of 2 equiv I while a 37% yield was produced in the absence of I. Judging from the binding affinities of oligomers with I, the equilibrium shifting was driven by the selective binding of 22-mer with I.

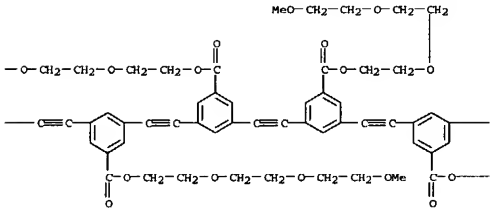
IT 440366-42-7P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(size-selective synthesis of folded m-phenylene ethynylene oligomers by dynamic templation around rodlike ligand using the imine metathesis reaction)

RN 440366-42-7 CAPLUS
CN Benzoic acid, 3-[[[3-[[3-[[3-[[3-[[3-[[(4-nitrophenyl)methylene]amino]-5-(1-oxo-2,5,8,11-tetraoxadodec-1-yl)phenyl]ethynyl]-5-(1-oxo-2,5,8,11-tetraoxadodec-1-yl)phenyl]ethynyl]-5-(1-oxo-2,5,8,11-tetraoxadodec-1-yl)phenyl]ethynyl]-5-(1-oxo-2,5,8,11-tetraoxadodec-1-yl)phenyl]imino]methyl]-5-[[3-(1-oxo-2,5,8,11-tetraoxadodec-1-yl)-5-[[3-(1-oxo-2,5,8,11-tetraoxadodec-1-yl)-5-[[3-(1-oxo-2,5,8,11-tetraoxadodec-1-yl)-5-[[3-(1-oxo-2,5,8,11-tetraoxadodec-1-yl)phenyl]ethynyl]phenyl]ethynyl]phenyl]ethynyl]phenyl]ethynyl]phenyl]ethynyl]-, 2-[2-(2-methoxyethoxy)ethoxy]ethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



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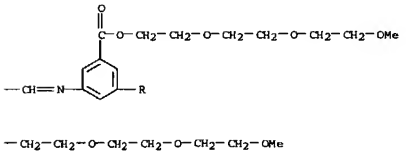
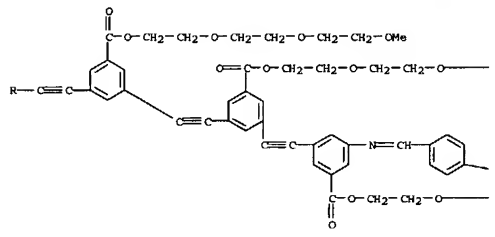


PAGE 2-A



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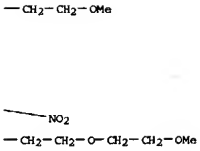


REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 14 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:327973 CAPLUS
DOCUMENT NUMBER: 136:348396
TITLE: Optical compensatory sheet and liquid crystal display
INVENTOR(S): Yokoyama, Shigeki; Kawata, Ken; Nishikawa, Hideyuki; Matsuoka, Koshin; Aminaka, Eiichiro; Ito, Yoji
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: U.S., 46 pp., Cont.-in-part of U.S. Ser. No. 226,172, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6380996	B1	20020430	US 2000-616365	20000713
JP 2001027706	A2	20010130	JP 1999-199442	19990713
JP 2000304931	A2	20001102	JP 2000-6772	20000114

PRIORITY APPLN. INFO.:
JP 1998-1931 A 19980107
JP 1998-114168 A 19980409
US 1999-226172 B2 19990107
JP 1999-199442 A 19990713
JP 2000-6772 A 20000114
JP 1999-38893 A 19990217

PRIOR ART DATE

AB The present invention relates to an optical compensatory sheet comprising an optically anisotropic layer formed of discotic liquid crystal mols. provided on a transparent substrate. The liquid crystal mols. are horizontally aligned in the optically anisotropic layer. An average inclined angle between discotic planes of the discotic liquid crystal mols. and a surface of the transparent substrate is < 5°. The discotic liquid crystal mols. are fixed in the optically anisotropic layer while keeping the horizontal alignment. A wide viewing angle and a rapid response of a liquid crystal display of a vertical alignment mode or a bend alignment mode are improved by using optical compensatory sheet of the present invention.

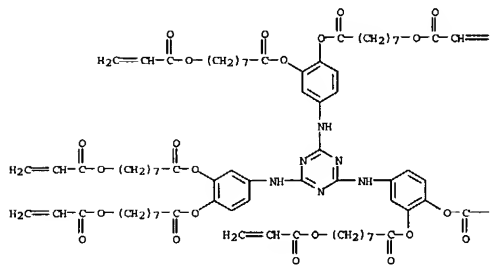
IT 416875-38-2P 416875-42-8P
RL: DEV (Device component use); PEP (Physical, engineering or chemical process); PNU (Preparation, unclassified); PRP (Properties); PREP (Preparation); PROC (Process); USES (Uses)
(liquid crystal display optical compensatory sheet containing polymerized discotic liquid crystals and melamine compound)

RN 416875-38-2 CAPLUS
CN Octanoic acid, 8-[(1-oxo-2-propenyl)oxy]-, 1,3,5-triazine-2,4,6-triyltris(imino-4,1,2-benzenetriyl) ester, polymer with 1,2,3,4,5,6-benzenehexaylhexakis(2,1-ethynediyl-4,1-phenyleneoxy-4,1-butanediyl) hexa-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 229615-41-2
CMF C87 H114 N6 O24

PAGE 1-A



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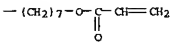

CM 2

CRN 229615-22-9
CMF C96 H90 O18

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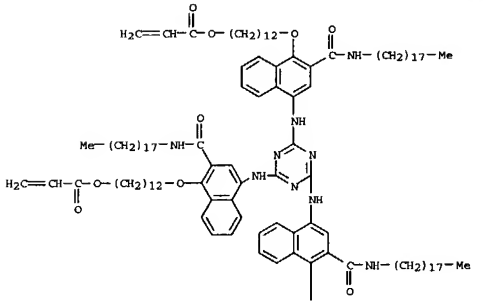
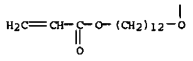


PAGE 2-A



CM 2

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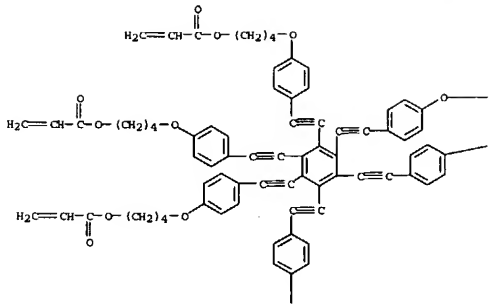
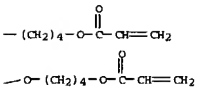
CMF C96 H90 O18

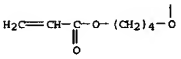
PAGE 1-A



PAGE 1-B



PAGE 2-A

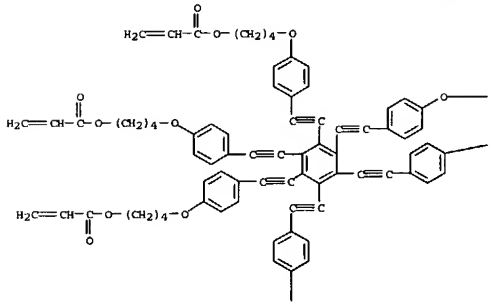


RN 416875-42-8 CAPLUS
CN 2-Propenoic acid, 1,2,3,4,5,6-benzenehexaylhexakis(2,1-ethynediyl-4,1-phenyleneoxy-4,1-butanediyl) ester, polymer with 1,3,5-triazine-2,4,6-triyltris[imino[2-[(octadecylamino)carbonyl]-4,1-naphthalenediyl]oxy-12,1-dodecanediyl] tri-2-propenoate (9CI) (CA INDEX NAME)

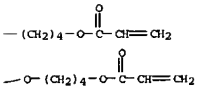
CM 1

CRN 229615-43-4
CMF C135 H213 N9 O12

PAGE 1-A



PAGE 1-B



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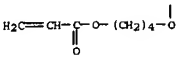


REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 15 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:925639 CAPLUS
DOCUMENT NUMBER: 136:325265
TITLE: General synthetic methods for the preparation of pinwheel receptors
AUTHOR(S): Raker, Joseph; Glass, Timothy E.
CORPORATE SOURCE: Department of Chemistry, The Pennsylvania State University, University Park, PA, 16802, USA

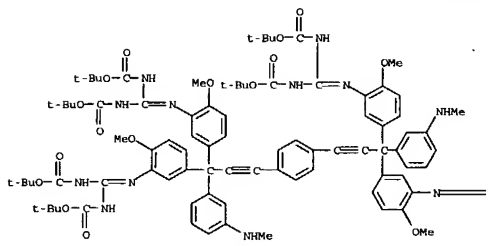
SOURCE: Tetrahedron (2001), 57(52), 10233-10240
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The synthesis of bis-trityl diynes, used as cooperative fluorescent chemosensors, is described. The most convenient sequence for the preparation of the sensor framework was found to be intolerant of most functionality. Therefore, an unfunctionalized framework is constructed and recognition elements are selectively installed via electrophilic substitution on an electronically differentiated key intermediate. A divergent synthesis of a general class of chemical sensors emerges. This synthetic method is highlighted by its simplicity and modularity allowing for the introduction of various recognition elements and fluorophores.

IT 413620-85-6P 413620-91-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of pinwheel receptors)

RN 413620-85-6 CAPLUS
CN Carbamic acid, [1,4-phenylenebis[[1-[3-(methylamino)phenyl]-2-propyn-3-yl-1-ylidene]bis[(6-methoxy-3,1-phenylene)nitrilomethanetetrayl]]]octakis-, octakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

PAGE 1-A



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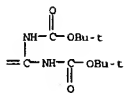
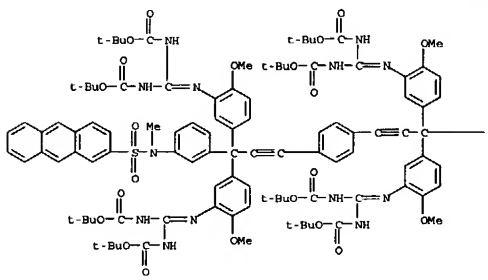


RN 413620-91-4 CAPLUS
CN Carbamic acid, [1,4-phenylenebis[[1-[3-[(2-anthracenylsulfonyl)methylamino]phenyl]-2-propyn-3-yl-1-ylidene]bis[(6-methoxy-3,1-phenylene)nitrilomethanetetrayl]]]octakis-, octakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

PAGE 1-A



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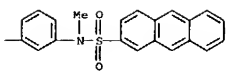


REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 16 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:208289 CAPLUS
DOCUMENT NUMBER: 134:247912
TITLE: Charge-modified nucleotide terminators and their use in sequencing and virus inhibition
INVENTOR(S): Kumar, Shiv; Flick, Parke; Nelson, John; Finn, Patrick; Nampalli, Satayam; Bull, Matthew
PATENT ASSIGNEE(S): Amersham Pharmacia Biotech, Inc., USA
SOURCE: PCT Int. Appl., 70 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001019841	A1	20010322	WO 2000-US25433	20000916
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1214332	A1	20020619	EP 2000-963540	20000916
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				

PRIORITY APPLN. INFO.: US 1999-154739P P 19990917
WO 2000-US25433 W 20000916

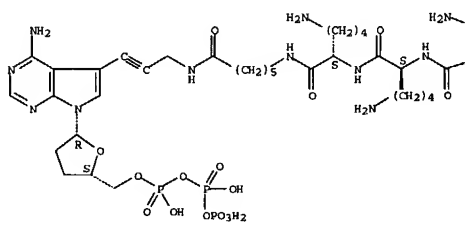
AB Charge-modified nucleic acid terminators comprising Z-X-S-B-L (I; Z = mono-, di-, triphosphate, thiophosphate, boranophosphate; X = O, CH2, S, NH; S = sugar, sugar analog; B = naturally occurring or synthetic base; L = alkyl, alkenyl, alkynyl optionally substituted with reporter moiety; L, B, S, X, or Z are substituted with a moiety which imparts a net neg. charge or a net pos. charge to structure I at physiol. or nucleic acid sequencing conditions) are disclosed. A method of sequencing nucleic acids using the above charge-modified terminators, as well as a method of inhibiting a virus which comprises contacting a cell infected with a virus with a virus-inhibiting amount of the above charge-modified terminator are also disclosed. Thus, many I compds. in which Z = triphosphate, X = O, S = 2',3'-dideoxyribose, and B = A, C, T, or U (i.e., ddNTPs) were prepared and employed in DNA sequencing reactions. Because of the charge on the ddNTP derivs., thermal breakdown products of these compds. were separated from the sequencing ladder, thereby facilitating reading of the sequencing data.

IT 330680-18-7P 330680-20-1P
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(charge-modified nucleotide terminators and their use in sequencing and virus inhibition)

RN 330680-18-7 CAPLUS
CN L-Lysinamide, N-[4-[3,6-bis(dimethylamino)xanthylium-9-yl]-3-carboxybenzoyl]-4-[3-[[(3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-5-yl)carbonyl]amino]-1-propynyl]-L-phenylalanyl-L-lysyl-L-lysyl-L-lysyl-L-lysyl-L-lysyl-N-[6-[[3-[4-amino-7-[(2R,5S)-tetrahydro-5-(3,5,7,7-tetrahydroxy-3,5,7-trioxido-2,4,6-trioxa-3,5,7-triphosphahept-1-yl)-2-furanyl]-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-2-propynyl]amino]-6-oxohexyl]-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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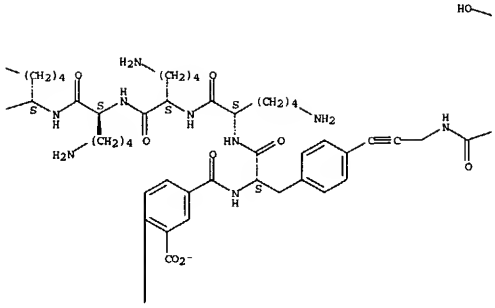
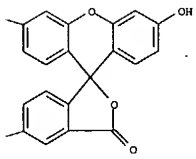
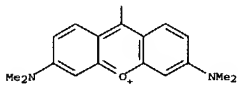


PAGE 1-C



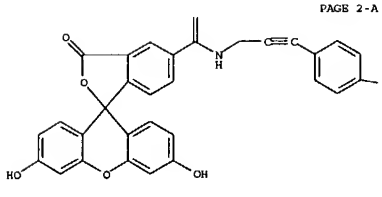
PAGE 2-B



RN 330680-20-1 CAPLUS
CN L-Lysinamide, N-[3-carboxy-4-(2,3,6,7,12,13,16,17-octahydro-1H,5H,11H,15H-xantheno[2,3,4-ij:5,6,7-i'j']diquinolizin-18-ium-9-yl)benzoyl]-4-[3-[[(3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-5-yl)carbonyl]amino]-1-propynyl]-L-phenylalanyl-L-lysyl-L-lysyl-L-lysyl-L-lysyl-N-[6-[[3-[4-amino-1,2-dihydro-2-oxo-1-[(2R,5S)-tetrahydro-5-(3,5,7,7-tetrahydroxy-3,5,7-trioxido-2,4,6-trioxa-3,5,7-triphosphahept-1-yl)-2-furanyl]-5-pyrimidinyl]-2-propynyl]amino]-6-oxohexyl]-, inner salt (9CI) (CA INDEX NAME)

PAGE 1-D

PAGE 2-A



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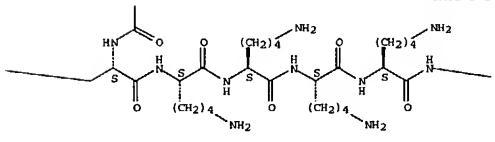
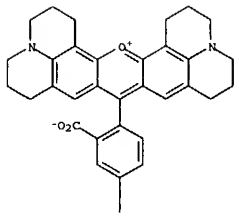


Absolute stereochemistry.

PAGE 1-A

PAGE 1-B



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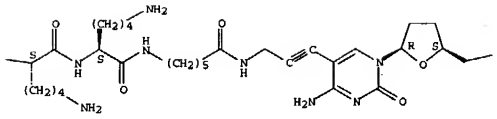

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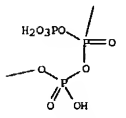
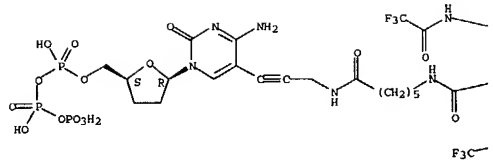


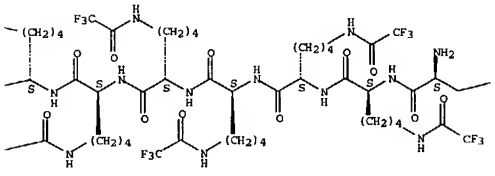
IT 330680-19-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(charge-modified nucleotide terminators and their use in sequencing and virus inhibition)
RN 330680-19-8 CAPLUS
CN L-Lysinamide, 4-[3-[[(3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-5-yl)carbonyl]amino]-1-propynyl]-L-phenylalanyl-N6-(trifluoroacetyl)-L-lysyl-N6-(trifluoroacetyl)-L-lysyl-N6-(trifluoroacetyl)-L-lysyl-N6-(trifluoroacetyl)-L-lysyl-N6-(trifluoroacetyl)-L-lysyl-N-[6-[[3-[4-amino-1,2-dihydro-2-oxo-1-[(2R,5S)-tetrahydro-5-(3,5,7,7-tetrahydroxy-3,5,7-trioxido-2,4,6-trioxa-3,5,7-triphosphahept-1-yl)-2-furanyl]-5-pyrimidinyl]-2-propynyl]amino]-6-oxohexyl]-N6-(trifluoroacetyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

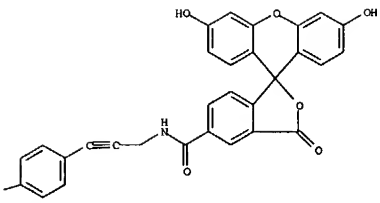
PAGE 1-A



PAGE 1-B



PAGE 1-C



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 17 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:208259 CAPLUS
DOCUMENT NUMBER: 134:237066
TITLE: Preparation of tryptase inhibitore
INVENTOR(S): Baer, Thomas; Stadlwieser, Josef; Ulrich, Wolf-Ruediger; Dominik, Andreas; Bundschuh, Daniela; Zech, Karl; Sommerhoff, Christian; Martin, Thomas
PATENT ASSIGNEE(S): Byk Gulden Lomberg Chemische Fabrik G.m.b.H., Germany
SOURCE: PCT Int. Appl., 63 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

RELATED APP'N

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001019809	A1	20010322	WO 2000-EP8899	20000912
W: AE, AL, AU, BA, BG, BR, CA, CN, CZ, EE, GB, HR, HU, ID, IL, IN, JP, KR, LT, LV, MK, MX, NO, NZ, PL, RO, SG, SI, SK, TR, UA, US, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 1216236	A1	20020626	EP 2000-962476	20000912
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003509417	T2	20030311	JP 2001-523388	20000912
PRIORITY APPLN. INFO.:			EP 1999-118233 A	19990914
			WO 2000-EP8899 W	20000912

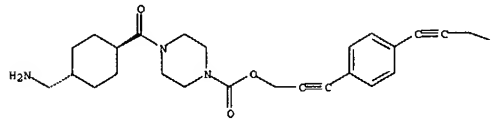
NO U.S. CASE.

OTHER SOURCE(S): MARPAT 134:237066
AB Compds. K1A5B5A3B3A1B1MB2A2B4A4B6A6K2 [A1, A2 = CO, NH, O, S, etc.; A3, A4 = CO, OC(O), CONH, etc.; M = central building block; K1 = B7COmB9X1, etc.; K2 = B8COpB10X2; B1-B6 = bond, alkylene; A5, A6 = CO,NH, O, etc.], tryptase inhibitors, were prepared E.g., 1,2-bis[4-(trans-4-aminomethylcyclohexylcarbonyl)-1-piperazinylcarbonyl-1-oxyprop-2-ynyl]benzene was prepared
IT 329351-77-1P 329351-78-2P 329351-79-3P
329351-80-6P 330595-43-2P 330595-44-3P
330595-49-8P 330595-50-1P 330595-51-2P
330595-52-3P 330595-53-4P 330595-75-0P
330595-76-1P 330595-77-2P 330595-78-3P
330595-79-4P 330595-80-7P 330595-85-2P
330595-86-3P 330595-87-4P 330595-88-5P
330595-89-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of tryptase inhibitors)

RN 329351-77-1 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[[trans-4-(aminomethyl)cyclohexyl]carbonyl]-, 1,4-phenylenedi-2-propyne-3,1-diyl ester, dihydrochloride (9CI) (CA INDEX NAME)

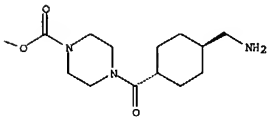
Relative stereochemistry.

PAGE 1-A



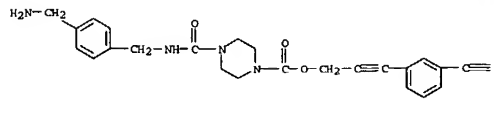
●2 HCl

PAGE 1-B



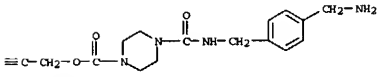
RN 329351-78-2 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[[[[4-(aminomethyl)phenyl]methyl]amino]carbonyl]-, 1,3-phenylenedi-2-propyne-3,1-diyl ester, dihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A



●2 HCl

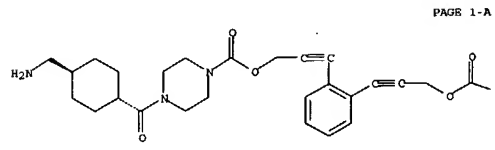
PAGE 1-B



RN 329351-79-3 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[[trans-4-(aminomethyl)cyclohexyl]carbonyl]-, 1,2-phenylenedi-2-propyne-3,1-diyl ester, dihydrochloride (9CI) (CA INDEX NAME)

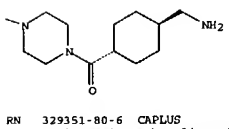
Relative stereochemistry.

PAGE 1-A

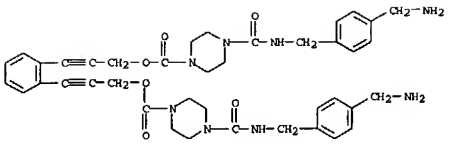


●2 HCl

PAGE 1-B



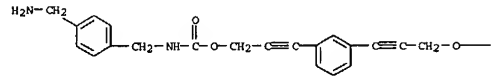
RN 329351-80-6 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[[[[4-(aminomethyl)phenyl]methyl]amino]carbonyl]-, 1,2-phenylenedi-2-propyne-3,1-diyl ester, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

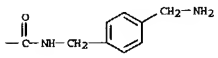
RN 330595-43-2 CAPLUS
CN Carbamic acid, [[4-(aminomethyl)phenyl]methyl]-, 1,3-phenylenedi-2-propyne-3,1-diyl ester, dihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A



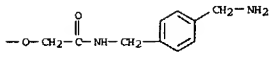
●2 HCl

PAGE 1-B



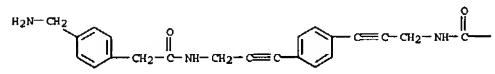
RN 330595-44-3 CAPLUS
CN Carbamic acid, [[4-(aminomethyl)phenyl]methyl]-, 1,2-phenylenedi-2-propyne-3,1-diyl ester, dihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-B



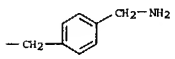
RN 330595-51-2 CAPLUS
CN Benzeneacetamide, N,N'-(1,4-phenylenedi-2-propyne-3,1-diyl)bis[4-(aminomethyl)-, dihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A

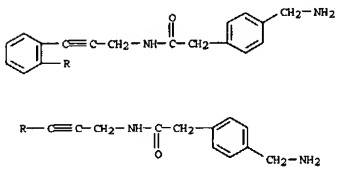


●2 HCl

PAGE 1-B

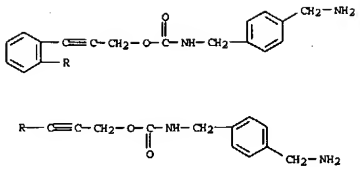


RN 330595-52-3 CAPLUS
CN Benzeneacetamide, N,N'-(1,2-phenylenedi-2-propyne-3,1-diyl)bis[4-(aminomethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

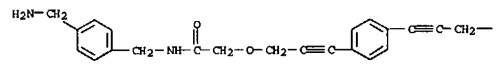
RN 330595-53-4 CAPLUS
CN Benzenepropanamide, N,N'-(1,4-phenylenedi-2-propyne-3,1-diyl)bis[4-(aminomethyl)-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

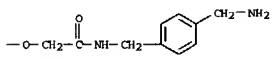
RN 330595-49-8 CAPLUS
CN Acetamide, 2,2'-[1,4-phenylenebis(2-propyne-3,1-diyloxy)]bis[N-[[4-(aminomethyl)phenyl]methyl]-, dihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A



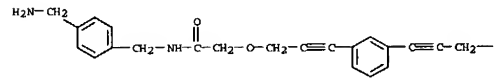
●2 HCl

PAGE 1-B



RN 330595-50-1 CAPLUS
CN Acetamide, 2,2'-[1,3-phenylenebis(2-propyne-3,1-diyloxy)]bis[N-[[4-(aminomethyl)phenyl]methyl]-, dihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A



●2 HCl

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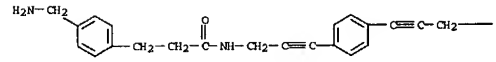

●2 HCl

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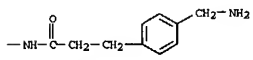
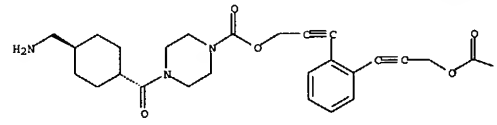


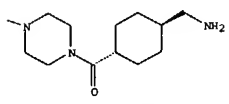
RN 330595-75-0 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[[trans-4-(aminomethyl)cyclohexyl]carbonyl]-, 1,2-phenylenedi-2-propyne-3,1-diyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

PAGE 1-A



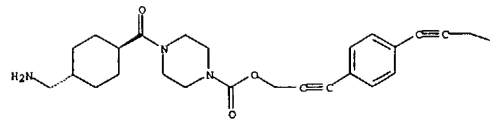
PAGE 1-B



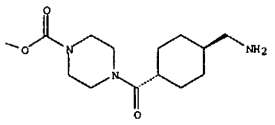
RN 330595-76-1 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[[trans-4-(aminomethyl)cyclohexyl]carbonyl]-, 1,4-phenylenedi-2-propyne-3,1-diyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

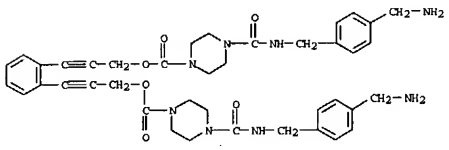
PAGE 1-A



PAGE 1-B



RN 330595-77-2 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[[[[4-(aminomethyl)phenyl]methyl]amino]carbonyl]-, 1,2-phenylenedi-2-propyne-3,1-diyl ester (9CI) (CA INDEX NAME)



RN 330595-78-3 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[[[[4-(aminomethyl)phenyl]methyl]amino]carbonyl]-, 1,3-phenylenedi-2-propyne-3,1-diyl ester (9CI) (CA INDEX NAME)

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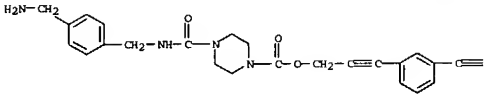
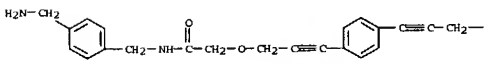
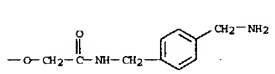


PAGE 1-A



PAGE 1-B



RN 330595-86-3 CAPLUS
CN Acetamide, 2,2'-[1,3-phenylenebis(2-propyne-3,1-diyloxy)]bis[N-[[4-(aminomethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)

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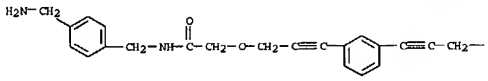

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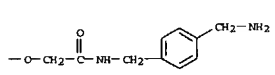

RN 330595-87-4 CAPLUS
CN Benzeneacetamide, N,N'-(1,4-phenylenedi-2-propyne-3,1-diyl)bis[4-(aminomethyl)- (9CI) (CA INDEX NAME)

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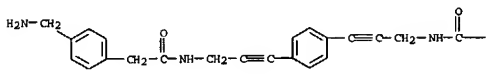
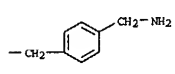
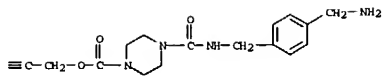


PAGE 1-B



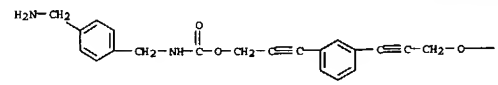
RN 330595-88-5 CAPLUS
CN Benzeneacetamide, N,N'-(1,2-phenylenedi-2-propyne-3,1-diyl)bis[4-

PAGE 1-B



RN 330595-79-4 CAPLUS
CN Carbamic acid, [[4-(aminomethyl)phenyl]methyl]-, 1,3-phenylenedi-2-propyne-3,1-diyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



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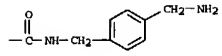
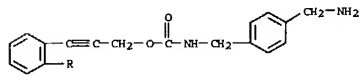
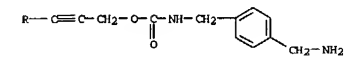


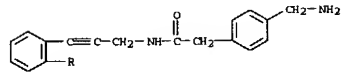
RN 330595-80-7 CAPLUS
CN Carbamic acid, [[4-(aminomethyl)phenyl]methyl]-, 1,2-phenylenedi-2-propyne-3,1-diyl ester (9CI) (CA INDEX NAME)

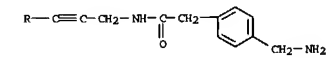




RN 330595-85-2 CAPLUS
CN Acetamide, 2,2'-[1,4-phenylenebis(2-propyne-3,1-diyloxy)]bis[N-[[4-(aminomethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)

(aminomethyl)- (9CI) (CA INDEX NAME)





RN 330595-89-6 CAPLUS
CN Benzenepropanamide, N,N'-(1,4-phenylenedi-2-propyne-3,1-diyl)bis[4-(aminomethyl)- (9CI) (CA INDEX NAME)

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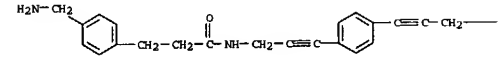

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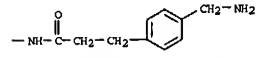
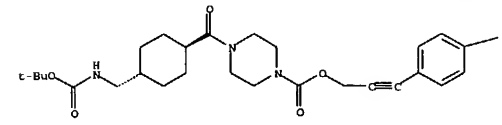


IT 329351-81-7P 329351-82-8P 329351-83-9P
329351-84-0P 330595-56-7P 330595-57-8P
330595-60-3P 330595-61-4P 330595-62-5P
330595-63-6P 330595-64-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of tryptase inhibitors)

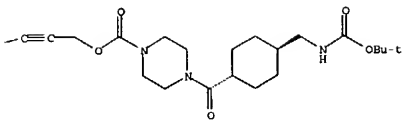
RN 329351-81-7 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[[trans-4-[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]cyclohexyl]carbonyl]-, 1,4-phenylenedi-2-propyne-3,1-diyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

PAGE 1-A



PAGE 1-B



RN 329351-82-8 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[[[[4-[[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]phenyl]methyl]amino]carbonyl]-, 1,3-phenylenedi-2-propyne-3,1-diyl ester (9CI) (CA INDEX NAME)

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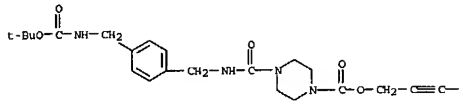

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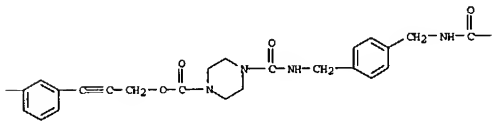

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—OBu-t

RN 329351-83-9 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[[trans-4-[[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]cyclohexyl]carbonyl]-, 1,2-phenylenedi-2-propyne-3,1-diyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

CN Carbamic acid, [[4-[[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]phenyl]methyl]-, 1,3-phenylenedi-2-propyne-3,1-diyl ester (9CI) (CA INDEX NAME)

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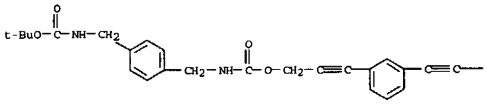

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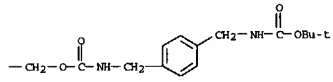
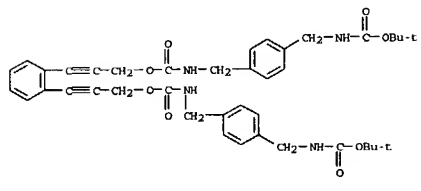
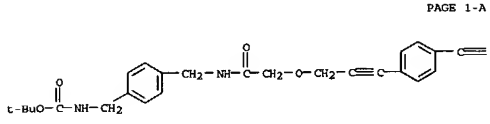


RN 330595-57-8 CAPLUS
CN Carbamic acid, [[4-[[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]phenyl]methyl]-, 1,2-phenylenedi-2-propyne-3,1-diyl ester (9CI) (CA INDEX NAME)

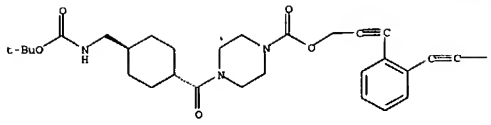


RN 330595-60-3 CAPLUS
CN Carbamic acid, [1,4-phenylenebis[2-propyne-3,1-diyloxy(1-oxo-2,1-ethanediyl)iminomethylene-4,1-phenylenemethylene]]bis-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

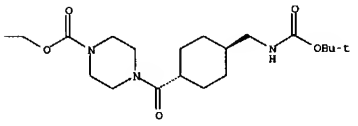
PAGE 1-A



PAGE 1-A

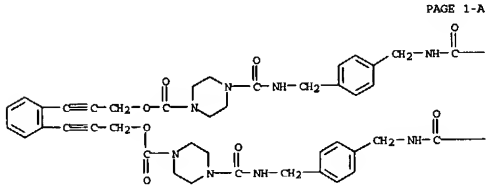


PAGE 1-B



RN 329351-84-0 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[[[[4-[[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]phenyl]methyl]amino]carbonyl]-, 1,2-phenylenedi-2-propyne-3,1-diyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



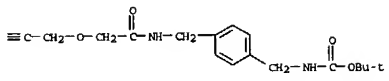
PAGE 1-B

—— OBu-t

—OBu-t

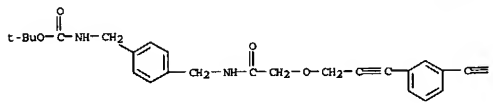
RN 330595-56-7 CAPLUS

PAGE 1-B

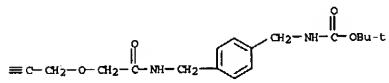


RN 330595-61-4 CAPLUS
CN Carbamic acid, [1,3-phenylenebis[2-propyne-3,1-diyloxy(1-oxo-2,1-ethanediyl)iminomethylene-4,1-phenylenemethylene]]bis-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

PAGE 1-A

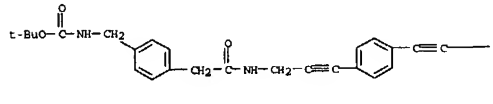


PAGE 1-B



RN 330595-62-5 CAPLUS
CN Carbamic acid, [1,4-phenylenebis[2-propyne-3,1-diylimino(2-oxo-2,1-ethanediyl)-4,1-phenylenemethylene]]bis-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

PAGE 1-A



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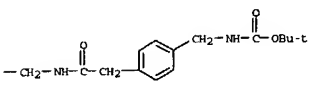
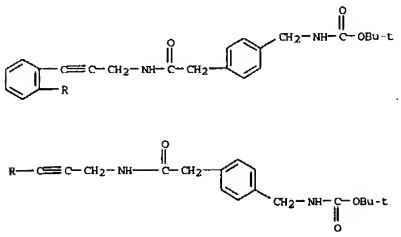
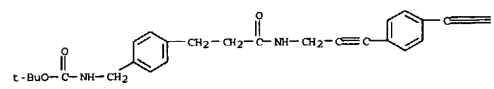


RN 330595-63-6 CAPLUS
CN Carbamic acid, [1,2-phenylenebis[2-propyne-3,1-diylimino(2-oxo-2,1-ethanediyl)-4,1-phenylenemethylene]]bis-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



RN 330595-64-7 CAPLUS
CN Carbamic acid, [1,4-phenylenebis[2-propyne-3,1-diylimino(3-oxo-3,1-propanediyl)-4,1-phenylenemethylene]]bis-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

PAGE 1-A



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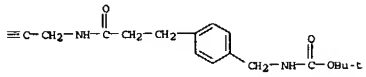


REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 18 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:179755 CAPLUS
DOCUMENT NUMBER: 134:222730
TITLE: Piperazinecarboxylate-containing tryptase inhibitors
PATENT ASSIGNEE(S): Byk Gulden Lomberg Chemische Fabrik Gmbh, Germany
SOURCE: Ger. Offen., 18 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19944066	A1	20010315	DE 1999-19944066	19990914

PRIORITY APPLN. INFO.: DE 1999-19944066 19990914
OTHER SOURCE(S): MARPAT 134:222730
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

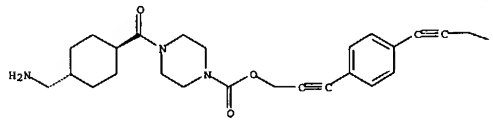
AB Title compds. such as I (benzene ring 1,2- and 1,4-disubstituted) and II (central benzene ring 1,2- and 1,3-disubstituted) were prepared as tryptase inhibitors. Thus, reaction of 2-HOCH2C.tplbond.CC6H4C.tplbond.CCH2OH with 1,1'-carbonyldiimidazole and then BOC-protected 1-[[4-(aminomethyl)benzyl]carbamoyl]piperazine, followed by HCl addition, gave II (central benzene ring 1,2-disubstituted). Dissociation consts. for tryptase-inhibitor complexes ranged from 0.003 to 0.2 μM.

IT 329351-77-1P 329351-78-2P 329351-79-3P
329351-80-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(piperazinecarboxylate-containing tryptase inhibitors)

RN 329351-77-1 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[[trans-4-(aminomethyl)cyclohexyl]carbonyl]-, 1,4-phenylenedi-2-propyne-3,1-diyl ester, dihydrochloride (9CI) (CA INDEX NAME)

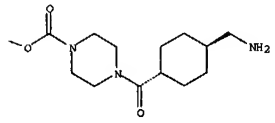
Relative stereochemistry.

PAGE 1-A



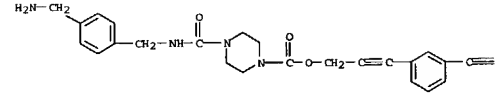
●2 HCl

PAGE 1-B



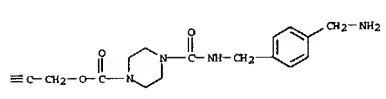
RN 329351-78-2 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[[[[4-(aminomethyl)phenyl]methyl]amino]carbonyl]-, 1,3-phenylenedi-2-propyne-3,1-diyl ester, dihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A



●2 HCl

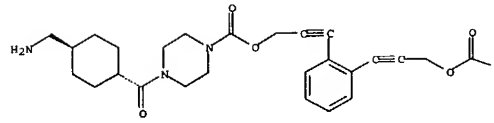
PAGE 1-B



RN 329351-79-3 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[[trans-4-(aminomethyl)cyclohexyl]carbonyl]-, 1,2-phenylenedi-2-propyne-3,1-diyl ester, dihydrochloride (9CI) (CA INDEX NAME)

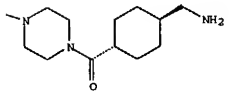
Relative stereochemistry.

PAGE 1-A

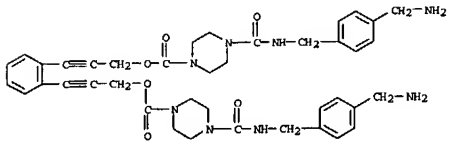


●2 HCl

PAGE 1-B



RN 329351-80-6 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[[[[4-(aminomethyl)phenyl]methyl]amino]carbonyl]-, 1,2-phenylenedi-2-propyne-3,1-diyl ester, dihydrochloride (9CI) (CA INDEX NAME)



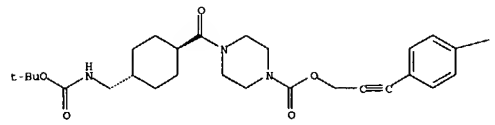
●2 HCl

IT 329351-81-7P 329351-82-8P 329351-83-9P
329351-84-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(piperazinecarboxylate-containing tryptase inhibitors)

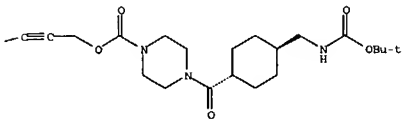
RN 329351-81-7 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[[trans-4-[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]cyclohexyl]carbonyl]-, 1,4-phenylenedi-2-propyne-3,1-diyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

PAGE 1-A

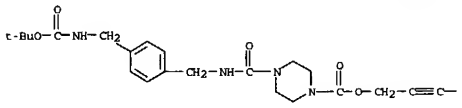


PAGE 1-B



RN 329351-82-8 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[[[4-[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]phenyl]methyl]amino]carbonyl]-, 1,3-phenylenedi-2-propyne-3,1-diyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



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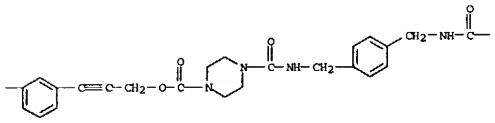
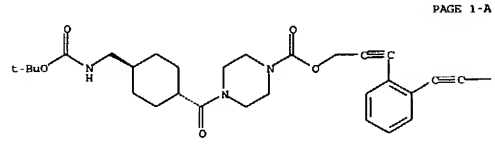


PAGE 1-C

RN 329351-83-9 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[[trans-4-[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]cyclohexyl]carbonyl]-, 1,2-phenylenedi-2-propyne-3,1-diyl ester (9CI) (CA INDEX NAME)

Relative stereochemistry.

PAGE 1-A



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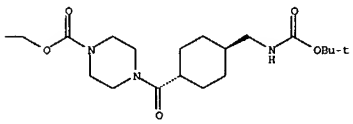
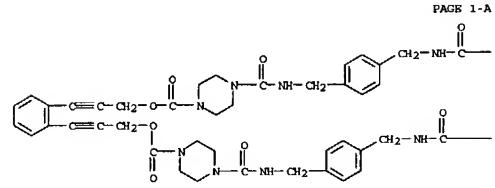


RN 329351-84-0 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[[[[4-[[[(1,1-dimethylethoxy)carbonyl]amino]methyl]phenyl]methyl]amino]carbonyl]-, 1,2-phenylenedi-2-propyne-3,1-diyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

L14 ANSWER 19 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN

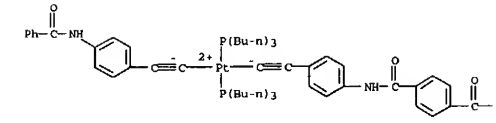
ACCESSION NUMBER:	2001:154123 CAPLUS
DOCUMENT NUMBER:	134:178661
TITLE:	para-Ethynyl aniline as a building block for fully π-conjugated ligands and acetylide complexes: crystal structures of trans-[Pt(PPh3)2(C.tplbond.CC6H4NH2)2] and [(μ-H)Ru3(CO)9(μ-C.tplbond.CC6H4NH2)]
AUTHOR(S):	Deeming, Antony J.; Hogarth, Graeme; Lee, Mo-yin; Saha, Malini; Redmond, Simon P.; Phetmung, Hirihattaya; Orpen, A. Guy
CORPORATE SOURCE:	Dep. Chem., Univ. Coll. London, London, WC1H 0A1, UK
SOURCE:	Inorganica Chimica Acta (2000), 309(1-2), 109-122 CODEN: ICHAA3; ISSN: 0020-1693
PUBLISHER:	Elsevier Science S.A.
DOCUMENT TYPE:	Journal
LANGUAGE:	English

AB Para-Ethynyl aniline has been prepared, structurally characterized and investigated as a building block towards fully π-conjugated multifunctional ligands and complexes. Palladium-copper catalyzed coupling with aryl halides affords a number of new amino-substituted aryl acetylenes, while using [Ni(CO)2(PPh3)2] as a catalyst, cyclotrimerization and dimerization to give an ene-yne were competitive. Reaction of para-ethynyl aniline with low-valent metal centers affords acetylide complexes trans-[Pt(PR3)2(C.tplbond.CC6H4NH2)2] (R = Ph, Bu), cis-[Pt(η2-dppe)(C.tplbond.CC6H4NH2)2], all-trans-[Ru(CO)2(PEt3)2(C.tplbond.CC6H4NH2)2] and [(μ-H)Ru3(CO)3(μ3-C.tplbond.CC6H4NH2)]. The bis(acetylide) trans-[Pt(PPh3)2(C.tplbond.CC6H4NH2)2] has been used to prepare extended chain complexes with amide, imine, imino-phosphorane and ferrocenyl imine units being generated. Attempts to prepare polymers via reaction with terephthaloyl chloride lead only to the formation of oligomers with an average of four monomer units. The crystal structures of 4-H2NC6H4C.tplbond.CH, trans-[Pt(PPh3)2(C.tplbond.CC6H4NH2-4)2], and [(μ-H)Ru3(CO)9(μ3-C.tplbond.CC6H4NH2-4)] were determined by x-ray crystallog.

IT 326003-02-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 326003-02-5 CAPLUS
CN Platinum, bis[[4-(benzoylamino)phenyl]ethynyl]tris[μ-(1,4-phenylenebis(carbonylimino-4,1-phenylene-2,1-ethynediyl))]octakis(tributylphosphine)tetra-, stereoisomer (9CI) (CA INDEX NAME)

PAGE 1-A



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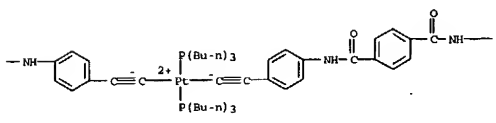

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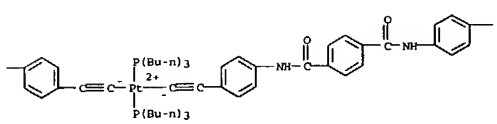

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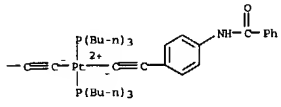


REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 20 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1999:132305 CAPLUS
DOCUMENT NUMBER: 130:252651
TITLE: Benzene-bridged hexaalkynylphenylalanines and first-generation dendrimers thereof
AUTHOR(S): Kayser, Bernd; Altman, Janina; Beck, Wolfgang
CORPORATE SOURCE: Institut fur Anorganische Chemie der Universitat Meiserstrasse 1, Munchen, D-80333, Germany
SOURCE: Chemistry--A European Journal (1999), 5(2), 754-758
CODEN: CEUJED; ISSN: 0947-6539
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

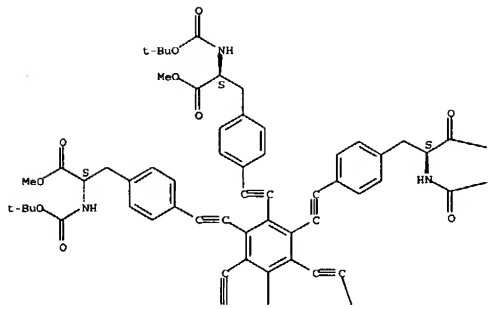
AB The palladium-mediated coupling of p-ethynylphenylalanine with hexabromobenzene yielded benzene-bridged hexaalkynyl-α-amino acid I (R = OMe; Boc = Me3CO2C) in high yield. The use of the hexapodal amino acid and of the corresponding tripodal amino acid II as backbones for the synthesis of first-generation dendrimers based on poly(trishydroxymethyl) and poly(ornithine) compds. I [R = NHC(CH2OCH2CH2CO2Me)3] and II [R = NHC(CH2OCH2CH2CO2Me)3, R1 = Boc; R = OMe, R1 = Boc-Orn(Boc)-Orn[Boc-Orn(Boc)]] is described.

IT 221452-89-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of benzene-bridged tri- and hexaalkynylphenylalanine first generation dendrimers)

RN 221452-89-7 CAPLUS
CN L-Phenylalanine, 4,4',4'',4''',4'''',4'''''-(1,2,3,4,5,6-benzenehexaylhexa-2,1-ethynediyl)hexakis[N-[(1,1-dimethylethoxy)carbonyl]-, hexamethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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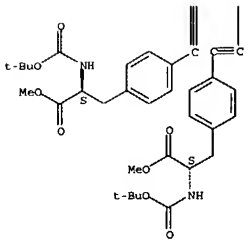
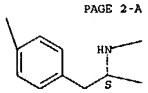
PAGE 2-A





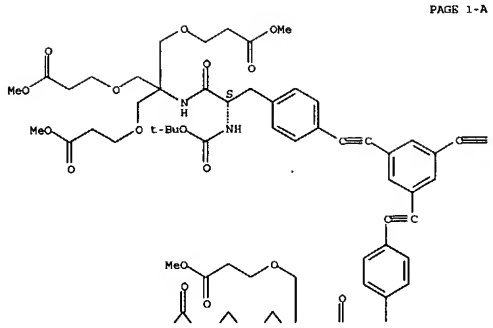
PAGE 2-B

IT 221452-91-1P 221452-92-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of benzene-bridged tri- and hexaalkynylphenylalanine first generation dendrimers)

RN 221452-91-1 CAPLUS
CN 3,11-Dioxa-5,8-diazatetradecan-14-oic acid, 6,6',6''-[1,3,5-benzenetriyltris(2,1-ethynediyl-4,1-phenylenemethylene)]tris[9,9-bis[(3-methoxy-3-oxopropoxy)methyl]-2,2-dimethyl-4,7-dioxo-, trimethyl ester, (6S,6'S,6''S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



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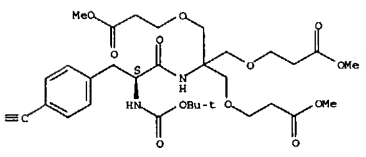

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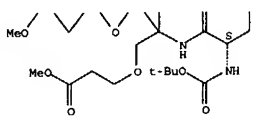
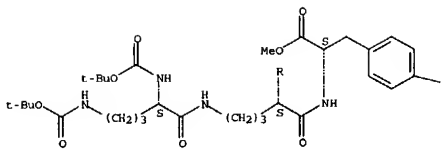


RN 221452-92-2 CAPLUS
CN L-Phenylalanine, 34,3''4,3''''4-(1,3,5-benzenetriyltri-2,1-ethynediyl)tris[N2,N5-bis[N2,N5-bis[(1,1-dimethylethoxy)carbonyl]-L-ornithyl]-L-ornithyl-, trimethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



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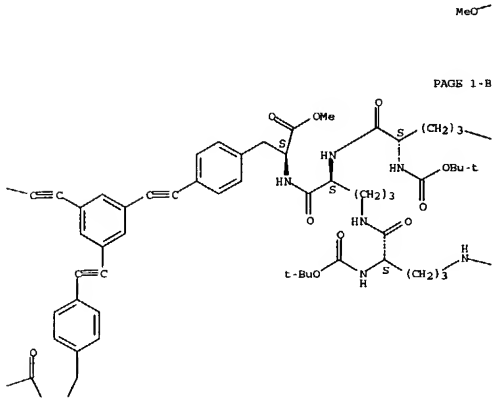

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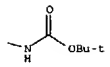

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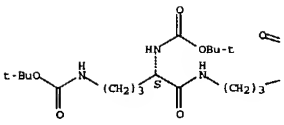

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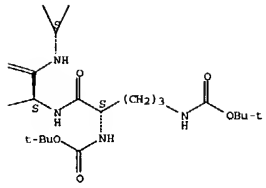

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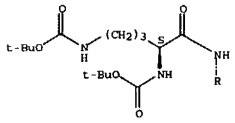


REFERENCE COUNT: 73 THERE ARE 73 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

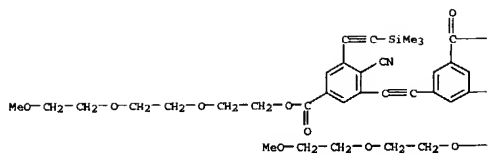
L14 ANSWER 21 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1999:94322 CAPLUS
DOCUMENT NUMBER: 130:223736
TITLE: Controlling the secondary structure of nonbiological oligomers with solvophobic and coordination interactions
AUTHOR(S): Prince, Ryan B.; Okada, Takashi; Moore, Jeffrey S.
CORPORATE SOURCE: Departments of Chemistry, Materials Science & Engineering and The Beckman Institute for Advanced Science and Technology, University of Illinois at Urbana-Champaign, Urbana, IL, 61801, USA
SOURCE: Angewandte Chemie, International Edition (1999), 38(1/2), 233-236
CODEN: ACIEF5; ISSN: 1433-7851
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Morphol., structure and microcalorimetric characteristics of a series of polyphenylacetylene oligomers are investigated. Modification of these oligomers (tubular cavity) via solvophobic and coordination interactions can lead to a highly ordered secondary structures. The strength of metal ion (Ag+) binding appears to be derived from a combination of solvophobic interactions that favor the helical structure along with the more usual metal-ligand interactions.

IT 221198-71-6D, silver complexes
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)
(controlling secondary structure of nonbiol. oligomers with solvophobic and coordination interactions)

RN 221198-71-6 CAPLUS
CN Benzoic acid, 4-cyano-3-[[3-[[2-cyano-3-[[3-(3,3-diethyl-1-triazenyl)-5-(1-oxo-2,5,8,11-tetraoxadodec-1-yl)phenyl]ethynyl]-5-(1-oxo-2,5,8,11-tetraoxadodec-1-yl)phenyl]ethynyl)-5-(1-oxo-2,5,8,11-tetraoxadodec-1-yl)phenyl]ethynyl]-5-[[3-[[2-cyano-5-(1-oxo-2,5,8,11-tetraoxadodec-1-yl)-3-[(trimethylsilyl)ethynyl]phenyl]ethynyl)-5-(1-oxo-2,5,8,11-tetraoxadodec-1-yl)phenyl]ethynyl]-, 2-[2-(2-methoxyethoxy)ethoxy]ethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



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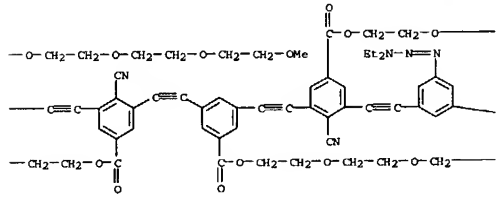

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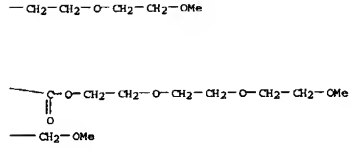
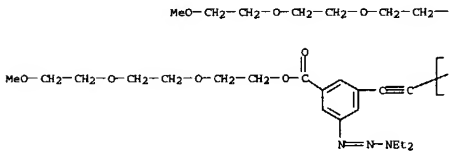


IT 221198-96-5D, silver complexes
RL: PRP (Properties)
(controlling secondary structure of nonbiol. oligomers with solvophobic and coordination interactions)

RN 221198-96-5 CAPLUS
CN Poly[[2-cyano-5-(1-oxo-2,5,8,11-tetraoxadodec-1-yl)-1,3-phenylene]-1,2-ethynediyl[5-(1-oxo-2,5,8,11-tetraoxadodec-1-yl)-1,3-phenylene]-1,2-ethynediyl], α-[[3-(3,3-diethyl-1-triazenyl)-5-(1-oxo-2,5,8,11-

tetraoxadodec-1-yl)phenyl]ethynyl]-m-[2-cyano-3-[[3-(3,3-diethyl-1-triazenyl)-5-(1-oxo-2,5,8,11-tetraoxadodec-1-yl)phenyl]ethynyl]-5-(1-oxo-2,5,8,11-tetraoxadodec-1-yl)phenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



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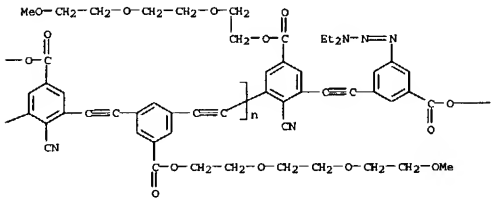

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REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 22 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1999:1311 CAPLUS
DOCUMENT NUMBER: 130:182647
TITLE: Supramolecular aggregates of dendritic cyclophanes (dendrophanes) threaded on molecular rods with steroid termini
AUTHOR(S): Kenda, Benoit; Diederich, Francois
CORPORATE SOURCE: Laboratorium fur Organische Chemie, ETH-Zentrum, Zurich, CH-8092, Switz.
SOURCE: Angewandte Chemie, International Edition (1998), 37(22), 3154-3158
CODEN: ACIEF5; ISSN: 1433-7851
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The steroid mol. rods. I (n = 1, 2) consisting of rigid oligo(phenylacetylene)spacers with terminal testosterone units for dendrophane complexation were prepared in a multi step synthesis. The corresponding monosteroid rods were also prepared as controls. Association consts. and binding free enthalpies for the complexes formed by dendrophanes and the mol. rods, as well as complexation induced shifts at saturation binding of signals monitored during NMR titrns. were determined

IT 220630-22-8P 220630-23-9P 220630-26-2P
220630-28-4P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(supramol. aggregates of dendritic cyclophanes (dendrophanes) threaded on mol. rods with steroid termini)

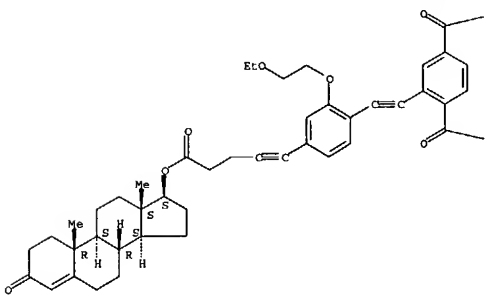
RN 220630-22-8 CAPLUS
CN Androst-4-en-3-one, 17-[[5-[3-(2-ethoxyethoxy)-4-[[2,5-bis[[[2-(trimethylammonio)ethyl]amino]carbonyl]phenyl]ethynyl]phenyl]-1-oxo-4-pentynyl]oxy]-, diiodide, (17β)-, compd. with 3,3',3'',3''',3'''',3''''',3'''''',3'''''''-[11,16,30,35-tetraoxaheptacyclo[34.2.2.217,20.13,7.16,10.122,26.125,29]hexatetraconta-3,5,7(46),8,10(45),17,19,22,24,26(42),27,29(41),36,38,39,43-hexadecaene-18,37,40,44-tetrayltetrakis[4,1-phenyleneoxy(1-oxo-2,1-ethanediyl)imino[2-[(2-carboxyethoxy)methyl]-2,1,3-propanetriyl]bis(oxy)]]octakis[propanoic acid] (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 220630-10-4
CMF C54 H74 N4 O7 . 2 I

Absolute stereochemistry.

PAGE 1-A



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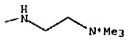

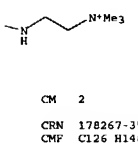

CM 2

CRN 178267-35-1
CMF C126 H148 N4 O48

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

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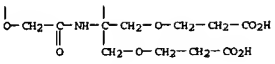
PAGE 2-B



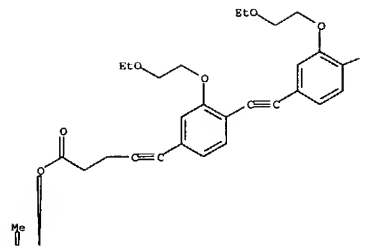
RN 220630-23-9 CAPLUS
CN Androst-4-en-3-one, 17-[[5-[3-(2-ethoxyethoxy)-4-[[3-(2-ethoxyethoxy)-4-[[2,5-bis[[[2-(trimethylammonio)ethyl]amino]carbonyl]phenyl]ethynyl]phenyl]ethynyl]phenyl]-1-oxo-4-pentynyl]oxy]-, diiodide, (17β)-, compd. with 3,3',3'',3''',3'''',3''''',3'''''',3'''''''-[11,16,30,35-tetraoxaheptacyclo[34.2.2.217,20.13,7.16,10.122,26.125,29]hexatetraconta-3,5,7(46),8,10(45),17,19,22,24,26(42),27,29(41),36,38,39,43-hexadecaene-18,37,40,44-tetrayltetrakis[4,1-phenyleneoxy(1-oxo-2,1-ethanediyl)imino[2-[(2-carboxyethoxy)methyl]-2,1,3-propanetriyl]bis(oxy)]]octakis[propanoic acid] (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 220630-12-6
CMF C66 H86 N4 O9 . 2 I

Absolute stereochemistry.

PAGE 1-A



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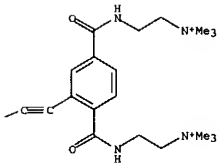
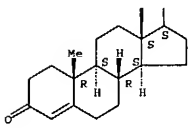
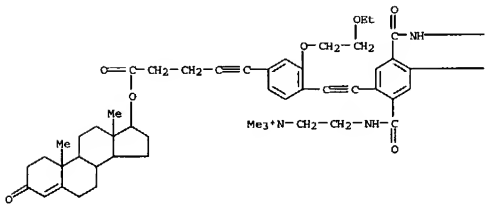


PAGE 2-A



●2 I⁻

PAGE 1-A



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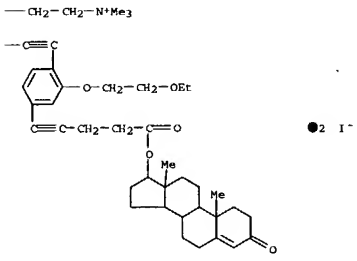


●2 I⁻

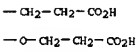
CM 2

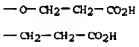
CRN 178267-35-1
CMF C126 H148 N4 O48

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

PAGE 1-C





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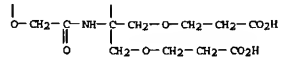
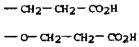


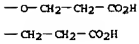
RN 220630-26-2 CAPLUS
CN Androst-4-en-3-one, 17,17'-[[2,5-bis[[[2-(trimethylammonio)ethyl]amino]carbonyl]-1,4-phenylene]bis[2,1-ethynediyl[3-(2-ethoxyethoxy)-4,1-phenylene](1-oxo-4-pentyne-5,1-diyl)oxy]]bis-, diiodide, (17β)-(17'β)-, compd. with 3,3',3'',3''',3'''',3''''',3'''''',3'''''''-[11,16,30,35-tetraoxaheptacyclo[34.2.2.217,20.13,7.16,10.122,26.125,29]hexatetraconta-3,5,7(46),8,10(45),17,19,22,24,26(42),27,29(41),36,38,39,43-hexadecaene-18,37,40,44-tetrayltetrakis[4,1-phenyleneoxy(1-oxo-2,1-ethanediyl)imino[2-[(2-carboxyethoxy)methyl]-2,1,3-propanetriyl]bis(oxy)]]octakis[propanoic acid] (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 220629-99-2
CMF C90 H116 N4 O12 . 2 I

PAGE 1-C





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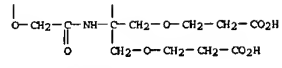
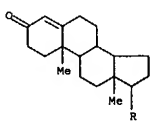


RN 220630-28-4 CAPLUS
CN Androst-4-en-3-one, 17,17'-[[2,5-bis[[[2-(trimethylammonio)ethyl]amino]carbonyl]-1,4-phenylene]bis[2,1-ethynediyl[3-(2-ethoxyethoxy)-4,1-phenylene]-2,1-ethynediyl[3-(2-ethoxyethoxy)-4,1-phenylene](1-oxo-4-pentyne-5,1-diyl)oxy]]bis-, diiodide, (17β)-(17'β)-, compd. with 3,3',3'',3''',3'''',3''''',3'''''',3'''''''-[11,16,30,35-tetraoxaheptacyclo[34.2.2.217,20.13,7.16,10.122,26.125,29]hexatetraconta-3,5,7(46),8,10(45),17,19,22,24,26(42),27,29(41),36,38,39,43-hexadecaene-18,37,40,44-tetrayltetrakis[4,1-phenyleneoxy(1-oxo-2,1-ethanediyl)imino[2-[(2-carboxyethoxy)methyl]-2,1,3-propanetriyl]bis(oxy)]]octakis[propanoic acid] (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 220630-11-5
CMF C114 H140 N4 O16 . 2 I

PAGE 1-A



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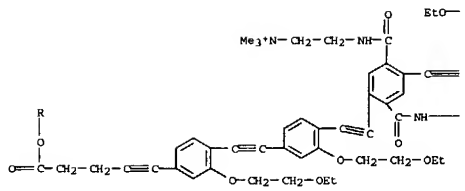

●2 I⁻

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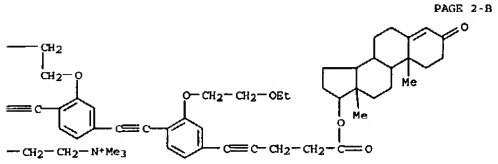


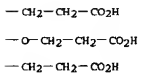
CM 2

CRN 178267-35-1
CMF C126 H148 N4 O48

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

PAGE 1-C



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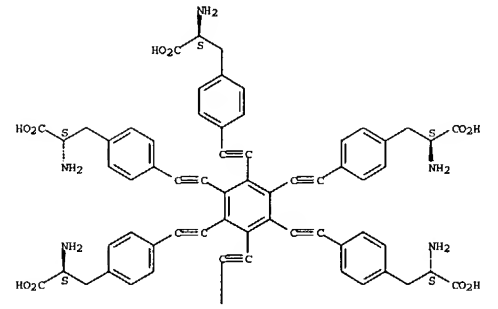

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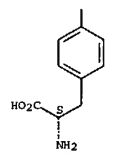
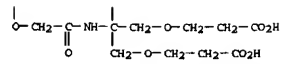


●6 HCl

REFERENCE COUNT: 90 THERE ARE 90 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 24 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1998:617887 CAPLUS
DOCUMENT NUMBER: 129:330462
TITLE: Higher order iminodiacetic acid libraries for probing protein-protein interactions
AUTHOR(S): Boger, Dale L.; Goldberg, Joel; Jiang, Weiqin; Chai, Wenying; Ducray, Pierre; Lee, Jae Kyoo; Ozer, Rachel S.; Andersson, Carl-Magnus
CORPORATE SOURCE: Department of Chemistry and The Skaggs Institute for Chemical Biology, The Scripps Research Institute, La Jolla, CA, 92037, USA
SOURCE: Bioorganic & Medicinal Chemistry (1998), 6(8), 1347-1378

PAGE 2-B



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L14 ANSWER 23 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1998:735815 CAPLUS
DOCUMENT NUMBER: 130:89635
TITLE: Metal complexes of biologically important ligands. Part 108. Metal complexes of alkyne-bridged α-amino acids
AUTHOR(S): Kayser, Bernd; Altman, Janina; Noeth, Heinrich; Knizek, Joerg; Beck, Wolfgang
CORPORATE SOURCE: Inst. Anorganische Chem., Ludwigs-Maximilians-Univ., Munich, D-80333, Germany
SOURCE: European Journal of Inorganic Chemistry (1998), (11), 1791-1798
CODEN: EJICFO; ISSN: 1434-1948
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The palladium-mediated coupling of p-ethynylphenylalanine (p-epa) with different halogenated benzenes yielded alkyne-bridged α-amino acids. A series of cationic mono- to hexanuclear (Ph3P)2Pt complexes with the anions of p-ethynylphenylalanine and alkynyl- or benzene-bridged di-, tri-, tetra- and hexa-ethynyl phenylalanines as N,O-chelate ligands was prepared N-t-boc-p-ethynylphenylalanine Me ester was metal-substituted to give complexes of the types Ph3PAu-C.tplbond.C-R and (Et3P)2Pt-(C.tplbond.CR)2. The benzene-bridged di-, tri-, tetra- and hexa-pethynylphenylalanine Me esters form Schiff bases with ferrocene aldehyde and a tripodal ligand was obtained from Ph2PCH2CH2CH2NH2 and the benzene-bridged triethynylphenyl-alanine. The structure of (Ph3P)2Pt[NH2C(H)(CH2C6H4C.tplbond.CH)CO2]+BF4- was determined by x-ray diffraction (hexagonal, R3, a = 28.708(5), c = 14.458(3) Å, V = 10,320(4) Å3, Z = 9, ρc = 1.440 g/cm3, μ(MoKα) = 3.182 mm-1, F(000) = 4446, 5890 observed reflections with I > 4σ(I), 523 refined parameters, R1 = 0.0408, wR2 = 0.1015).
IT 217969-19-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(for preparation of Pt and ferrocene complexes of alkyne-bridged α-amino acids)
RN 217969-19-2 CAPLUS
CN L-Phenylalanine, 4,4',4'',4''',4'''',4'''''-(1,2,3,4,5,6-benzenehexaylhexa-2,1-ethynediyl)hexakis-, hexahydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

CODEN: BMECEP; ISSN: 0968-0896
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Full details of the preparation of iminodiacetic acid diamide dimer (2040 compds.), trimer (560 compds.), and tetramer (1596 compds.) libraries by multistep convergent solution-phase synthesis for studying protein-protein interactions are provided. The libraries were assembled in a format providing small 8-10 compound mixts. and the deconvolution of many of the small mixts. to identify screening leads by resynthesis of the individual components were conducted for 320 of the individual compds. to date. A representative example of the subsequent exploration of the structure-activity relationships for an identified receptor binding antagonist (200 addnl. individual compds.) and steps taken for potential elaboration to a receptor dimerization agonist are defined with preparation of representative linked dimers (70 compds.).
IT 215161-33-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of higher order iminodiacetic acid libraries for probing protein-protein interactions)
RN 215161-33-4 CAPLUS
CN Acetamide, 2,2',2''-[1,3,5-benzenetriyltris(2-propyne-3,1-diyloxy)]tris[N-[2-[[2-(3,4-dimethoxyphenyl)ethyl]amino]-2-oxoethyl]-N-[2-oxo-2-[(2-phenylethyl)amino]ethyl]- (9CI) (CA INDEX NAME)

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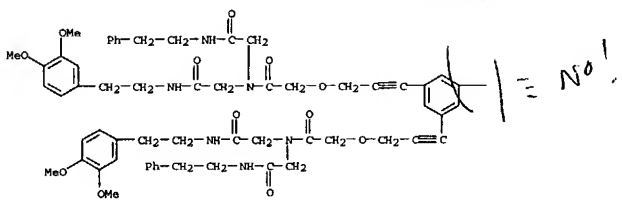

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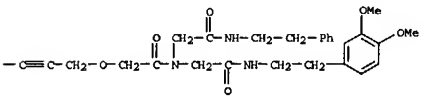
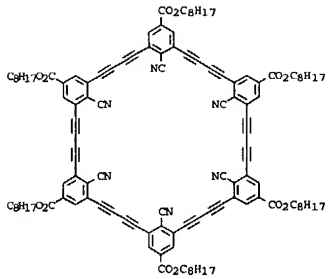


REFERENCE COUNT: 111 THERE ARE 111 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 25 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1998:363167 CAPLUS
DOCUMENT NUMBER: 129:135964
TITLE: Synthesis and association behavior of

[4.4.4.4.4.4]metacyclophanedodecayne derivatives with interior binding groups

AUTHOR(S): Tobe, Yoshito; Utsumi, Naoto; Nagano, Atsushi; Naemura, Koichiro
CORPORATE SOURCE: Department of Chemistry, Faculty of Engineering Science, Osaka University, Osaka, 560, Japan
SOURCE: Angewandte Chemie, International Edition (1998), 37(9), 1285-1287
CODEN: ACIEF5; ISSN: 1433-7851
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 129:135964
GI



I

AB The preparation and association behavior of [4.4.4.4.4.4]metacyclophanedodecayne I were reported.
IT 210475-75-5P 210475-78-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and association behavior of metacyclophanedodecayne derive. with interior binding groups)
RN 210475-75-5 CAPLUS
CN Benzoic acid, 3,3'-(1,3-butadiyne-1,4-diyl)bis[4-cyano-5-[4-[2-cyano-3-[4-[2-cyano-3-ethynyl-5-[(octyloxy)carbonyl]phenyl]-1,3-butadiynyl]-5-[(octyloxy)carbonyl]phenyl]-1,3-butadiynyl]-, dioctyl ester (9CI) (CA INDEX NAME)

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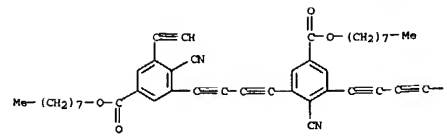

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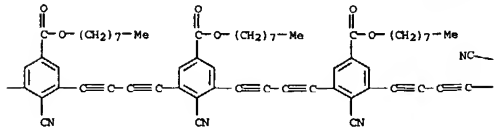

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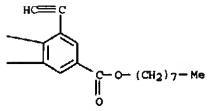
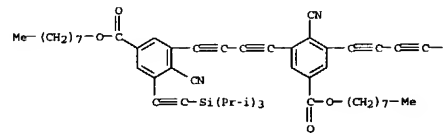


RN 210475-78-8 CAPLUS
CN Benzoic acid, 3,3'-(1,3-butadiyne-1,4-diyl)bis[4-cyano-5-[4-[2-cyano-3-[4-[2-cyano-5-[(octyloxy)carbonyl]-3-[[tris(1-methylethyl)silyl]ethynyl]phenyl]-1,3-butadiynyl]-5-[(octyloxy)carbonyl]phenyl]-1,3-butadiynyl]-, dioctyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



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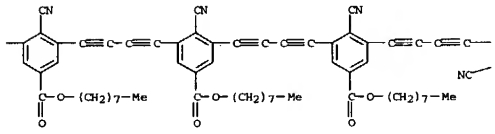

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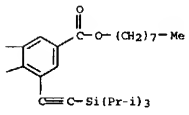
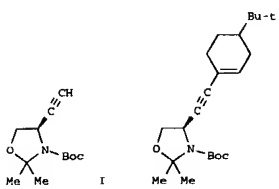


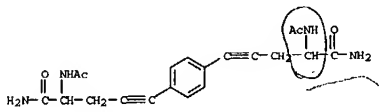
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 26 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1997:790849 CAPLUS
DOCUMENT NUMBER: 128:88734
TITLE: Elaboration of the side-chain of amino acid derivatives by palladium catalyzed couplings
AUTHOR(S): Crisp, Geoffrey T.; Jiang, Yu-Lin; Pullman, Peter J.; De Savi, Chris
CORPORATE SOURCE: Department of Chemistry, The University of Adelaide, Adelaide, 5005, Australia
SOURCE: Tetrahedron (1997), 53(51), 17489-17500
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 128:88734
GI



I II

AB The palladium-catalyzed couplings of aryl halides and triflates with propargyl amino amides and the couplings of aryl and vinyl halides and triflates with an ethynyl oxazolidine are reported. The preparation of ethynyl glycine analogs was accomplished by treating I with electrophiles. An example compound thus prepared was II.
IT 201041-85-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of alkynyl amino acid analogs)
RN 201041-85-2 CAPLUS
CN 4-Pentynamide, 5,5'-(1,4-phenylene)bis[2-(acetylamino)- (9CI) (CA INDEX NAME)



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L14 ANSWER 27 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1997:631870 CAPLUS
DOCUMENT NUMBER: 127:293709
TITLE: Synthesis and Characterization of Water-Soluble Dendritic Macromolecules with a Stiff, Hydrocarbon Interior
AUTHOR(S): Pesak, Douglas J.; Moore, Jeffrey S.; Wheat, Thomas E.
CORPORATE SOURCE: Departments of Chemistry and Materials Science and Engineering and the Beckman Institute for Advanced Science and Technology, University of Illinois at Urbana-Champaign, Urbana, IL, 61801, USA
SOURCE: Macromolecules (1997), 30(21), 6467-6482
CODEN: MAMOBX; ISSN: 0024-9297
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Phenylacetylene dendrimers terminated with tert-Bu esters on their periphery up to the fifth generation were synthesized by a modified convergent growth protocol. A solid-state thermolytic process involving no solvents, reagents, or catalysts accomplished transformation of the tert-Bu esters to carboxylic acids. The carboxylic acid terminated dendrimers possessed solubility characteristics orthogonal to those of the tert-Bu esters. Capillary electrophoresis and electrospray mass spectrometry were used to characterize the carboxylate-terminated dendrimers. These techniques suggested that some form of crosslinking between or within higher generation dendrimer mols. was occurring during the thermolysis reaction. To overcome this problem, a second series of dendrimers terminated with (2-[2-(2-methoxyethoxy)ethoxy]ethyl) esters on their periphery were prepared, enabling aqueous solution hydrolysis to produce the carboxylic acids. The dendrimers that resulted by this approach were more homogeneous products.
IT 196929-11-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of polyacetylene dendrimers terminated with tert-Bu groups by modified convergent growth)
RN 196929-11-0 CAPLUS
CN 1,3-Benzenedicarboxylic acid, 5,5',5'',5''',5'''',5''''',5'''''',5'''''''-[[5-(3,3-diethyl-1-triazenyl)-1,3-phenylene]bis[2,1-ethynediyl-5,1,3-

benzenetriylbis(2,1-ethynediyl-5,1,3-benzenetriyldi-2,1-ethynediyl)]]octakis-, hexadecakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

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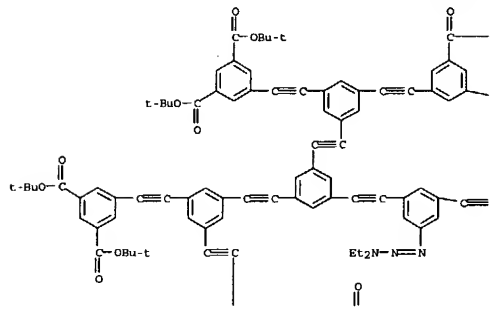

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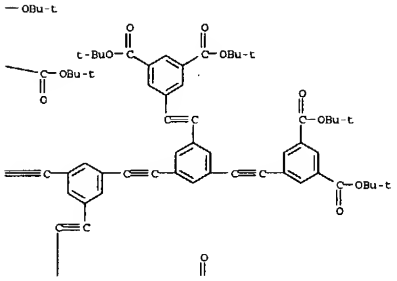

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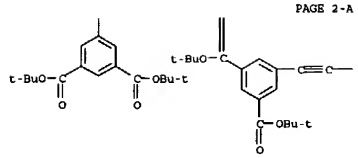

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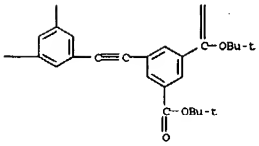

L14 ANSWER 28 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1997:615242 CAPLUS
DOCUMENT NUMBER: 127:307838
TITLE: Solvophobically driven folding of nonbiological oligomers
AUTHOR(S): Nelson, James C.; Saven, Jeffery G.; Moore, Jeffery S.; Wolynes, Peter G.
CORPORATE SOURCE: Dep. Chem. Materials Sci. Eng., Beckman Inst. Advanced Sci. Technol. Univ. Illinois, Urbana, IL, 61801, USA
SOURCE: Science (Washington, D. C.) (1997), 277(5333), 1793-1796
CODEN: SCIEAS; ISSN: 0036-8075
PUBLISHER: American Association for the Advancement of Science
DOCUMENT TYPE: Journal
LANGUAGE: English

AB In solution, biopolymers commonly fold into well-defined three-dimensional structures, but only recently has analogous behavior been explored in synthetic chain mols. An aromatic phenylacetylene backbone is described that spontaneously acquires a stable helical conformation having a large cavity. The chain does not form intramol. hydrogen bonds, and solvophobic interactions drive the folding transition, which is sensitive to chain length, solvent quality, and temperature

IT **197296-90-5**
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)
(solvophobically driven chain folding of polyphenylacetylene oligomers)

RN 197296-90-5 CAPLUS
CN Benzoic acid, 3-[[3-[[3-[[3-[[3-[[3-(3,3-diethyl-1-triazenyl)-5-(1-oxo-2,5,8,11-tetraoxadodec-1-yl)phenyl]ethynyl]-5-(1-oxo-2,5,8,11-tetraoxadodec-1-yl)phenyl]ethynyl]-5-(1-oxo-2,5,8,11-tetraoxadodec-1-yl)phenyl]ethynyl]-5-(1-oxo-2,5,8,11-tetraoxadodec-1-yl)phenyl]ethynyl]-5-(1-oxo-2,5,8,11-tetraoxadodec-1-yl)phenyl]ethynyl]-5-[[3-(1-oxo-2,5,8,11-tetraoxadodec-1-yl)-5-[[3-(1-oxo-

2,5,8,11-tetraoxadodec-1-yl)-5-[[3-(1-oxo-2,5,8,11-tetraoxadodec-1-yl)-5-[[3-(trimethylsilyl)ethynyl]phenyl]ethynyl]phenyl]ethynyl]phenyl]ethynyl]phenyl]ethynyl]-, 2-[2-(2-methoxyethoxy)ethoxy]ethyl ester (9CI) (CA INDEX NAME)

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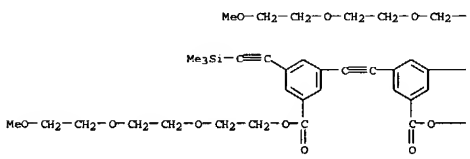

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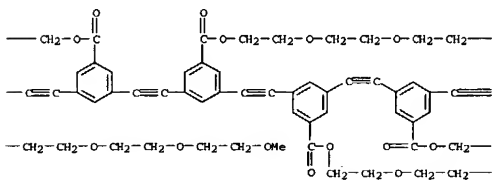

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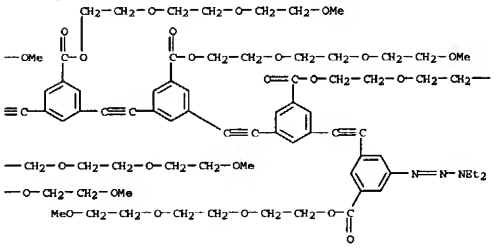
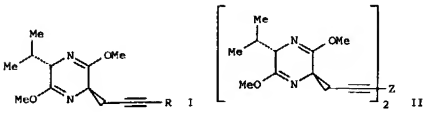


PAGE 1-D

L14 ANSWER 29 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1997:560789 CAPLUS
DOCUMENT NUMBER: 127:234570
TITLE: Stereoselective synthesis of alkynylglycines and α,α'-alkynyl-bridged bis(glycines)
AUTHOR(S): Rodbotten, Synne; Benneche, Tore; Undheim, Kjell
CORPORATE SOURCE: Department of Chemistry, University of Oslo, Oslo, N-0315, Norway
SOURCE: Acta Chemica Scandinavica (1997), 51(8), 873-880
CODEN: ACHSE7; ISSN: 0904-213X
PUBLISHER: Munksgaard
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 127:234570
GI



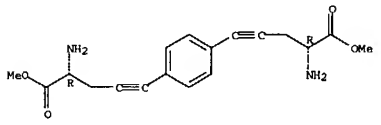
AB Pd-CuI catalysis has been used to effect C-substitution with iodoarenes on the terminal alkynyl carbon in (2S,5R)-2,5-dihydro-3,6-dimethoxy-2-isopropyl-5-propargylpyrazine (I; R = H). Bridged structures II (Z = p-C6H4, 2,5-thiophenediyl) were formed from diiodoarenes. Homocoupling with bridge formation between two alkynyl units to give II (Z = bond) was effected by the same catalyst system with air as the oxidant. Mild hydrolysis gave the corresponding unsatd. amino acids and esters. The dicoupled amino acids have two triple bonds in conjugation in the bridge between the α,α'-carbons in the two glycine units.

IT **195206-40-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(stereoselective synthesis of alkynylglycines and alkynyl-bridged bis(glycines))

RN 195206-40-7 CAPLUS

CN 4-Pentynoic acid, 5,5'-(1,4-phenylene)bis[2-amino-, dimethyl ester, [R-(R*,R*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



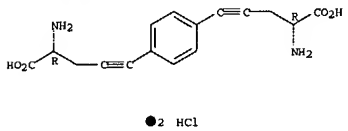
NOT 20 BONDS BTW N's

IT **195206-42-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(stereoselective synthesis of alkynylglycines and alkynyl-bridged bis(glycines))

RN 195206-42-9 CAPLUS

CN 4-Pentynoic acid, 5,5'-(1,4-phenylene)bis[2-amino-, dihydrochloride, [R-(R*,R*)]- (9CI) (CA INDEX NAME)

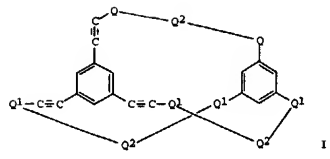
Absolute stereochemistry.



●2 HCl

REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 30 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1994:106509 CAPLUS
DOCUMENT NUMBER: 120:106509
TITLE: Syntheses and characterizations of phenylacetylene macrocyclics - towards porous organic solids
AUTHOR(S): Wu, Ziyan; Moore, Jeffrey S.
CORPORATE SOURCE: Macromol. Sci. Eng. Cent., Univ. Michigan, Ann Arbor, MI, 48109-1055, USA
SOURCE: Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (1993), 34(1), 122-3
CODEN: ACPPAY; ISSN: 0032-3934
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



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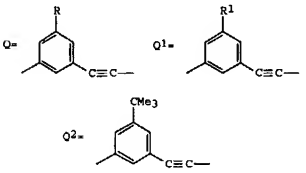


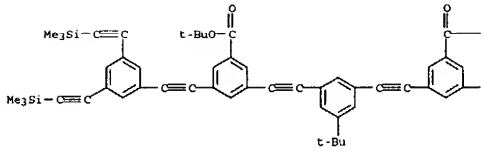
AB Title compds. I (R, R1 = H, CO2CMe3, CO2H) were prepared from 3,5-Br2C6H3C.tplbond.CSiMe3 and phenyacetylene oligomers Et2NN:N-Q-Q2-Q-H and I-Q1-Q2-Q1-C6H3(C.tplbond.CSiMe3)2-3,5 (II) via sequential iodination, desilylation, and coupling reaction of bis(diethyltriazene) 1,3,5-(Et2NN:N-Q1-Q2-Q1)2C6H3C.tplbond.CSiMe3 with II and cyclization of the resulting coupling products.

IT **151982-10-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, conversion into diiodide, cyclization of)

RN 151982-10-4 CAPLUS

CN Benzoic acid, 3,3'-[[5-[[3-[[3-[[3-[[3,5-bis[(trimethylsilyl]ethynyl]phenyl]ethynyl]-5-[(1,1-dimethylethoxy)carbonyl]phenyl]ethynyl]-5-[(1,1-dimethylethyl)phenyl]ethynyl]-5-[(1,1-dimethylethoxy)carbonyl]phenyl]ethynyl]-1,3-phenylene]di-2,1-ethynediyl]bis[5-[[3-[[3-(3,3-diethyl-1-triazenyl)-5-[(1,1-dimethylethoxy)carbonyl]phenyl]ethynyl]-5-(1,1-dimethylethyl)phenyl]ethynyl]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

PAGE 1-A



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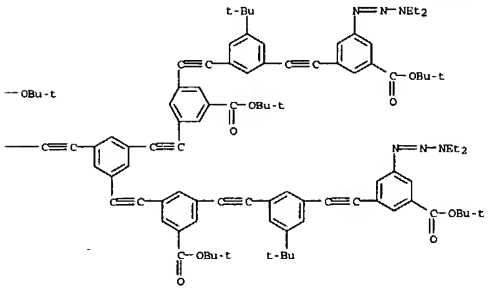


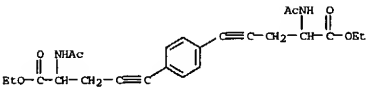
L14 ANSWER 31 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1992:427083 CAPLUS
DOCUMENT NUMBER: 117:27083
TITLE: Palladium-catalyzed coupling of a propargylglycine derivative
AUTHOR(S): Crisp, Geoffrey T.; Robertson, Thomas A.
CORPORATE SOURCE: Dep. Org. Chem., Univ. Adelaide, Adelaide, 5001, Australia
SOURCE: Tetrahedron (1992), 48(15), 3239-50
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 117:27083

AB The coupling of aryl or vinyl halides and triflates with a propargylglycine derivative in the presence of a palladium catalyst is described. The coupling is compatible with a variety of structural types and functional groups. E.g., coupling of AcNHCH(CH2C.tplbond.CH)CO2Et with RX (RX = PhI, 2-naphthol triflate, 3-bromopyridine, etc.) in the presence of Pd(PPh3)4, CuI and Et3N in DMF gave AcNHCH(CH2C.tplbond.CR)CO2Et. The coupling was also carried out on an optically-active propargylglycine derivative and the products were optically active.

IT **141889-66-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 141889-66-9 CAPLUS

CN 4-Pentynoic acid, 5,5'-(1,4-phenylene)bis[2-(acetylamino)-, diethyl ester (9CI) (CA INDEX NAME)



L14 ANSWER 32 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1991:418554 CAPLUS
DOCUMENT NUMBER: 115:18554
TITLE: Electrophotographic photoreceptor
INVENTOR(S): Makino, Naonori; Ohno, Shigeru; Hoshi, Satoshi; Kitatani, Katsuji
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 54 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 391399	A1	19901010	EP 1990-106491	19900405
EP 391399	B1	19951102		
R: DE, FR, GB				
JP 02264962	A2	19901029	JP 1989-86589	19890405
US 5019474	A	19910528	US 1990-504205	19900404

PRIORITY APPLN. INFO.: JP 1989-86589 19890405
OTHER SOURCE(S): MARPAT 115:18554

AB A multilayer electrophotog. photoconductor is described with a charge-generating layer containing a tetrakisazo compound R1R2NAr2C.tplbond.CAr1C.tplbond.CAr3NR3R4 [Ar1-Ar3 = arylene, divalent condensed polycyclic aromatic group, divalent heterocyclic group; R1-R4 = Ar1N:NCp (Cp = coupler residue)]. The photoreceptor exhibits a high sensitivity and durability.

IT **134427-13-7 134427-14-8 134427-15-9**
134427-16-0 134427-17-1 134427-18-2
134427-19-3 134427-20-6 134427-21-7
134427-22-8 134427-23-9 134461-12-4
134461-13-5 134461-14-6 134461-16-8
134461-17-9 134461-18-0 134461-19-1
134461-23-7
RL: USES (Uses)
(as charge-generating agent for electrophotog. photoconductor)

RN 134427-13-7 CAPLUS

CN 2-Naphthalenecarboxamide, 4,4',4'',4'''-[1,4-phenylenebis[2,1-ethynediyl-4,1-phenylenenitrilobis(4,1-phenyleneazo)]]tetrakis[3-hydroxy-N-phenyl-

(9CI) (CA INDEX NAME)

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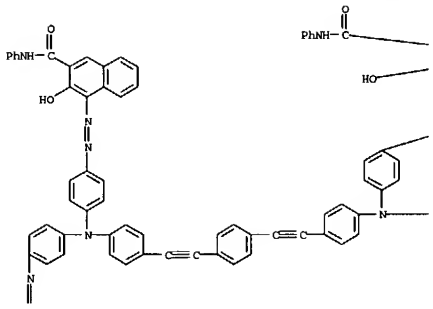

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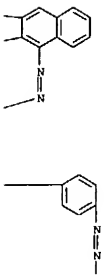

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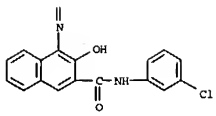

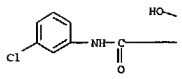

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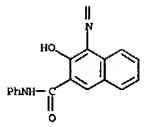
RN 134427-15-9 CAPLUS
CN 2-Naphthalenecarboxamide, 4,4',4'',4'''-(1,4-phenylenebis[2,1-ethynediyl-4,1-phenylenenitrilobis(4,1-phenyleneazo)])tetrakis[N-(4-chloro-2-(trifluoromethyl)phenyl]-3-hydroxy- (9CI) (CA INDEX NAME)

PAGE 2-A



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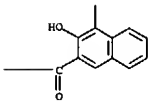

RN 134427-14-8 CAPLUS
CN 2-Naphthalenecarboxamide, 4,4',4'',4'''-(1,4-phenylenebis[2,1-ethynediyl-4,1-phenylenenitrilobis(4,1-phenyleneazo)])tetrakis[N-(3-chlorophenyl)-3-hydroxy- (9CI) (CA INDEX NAME)

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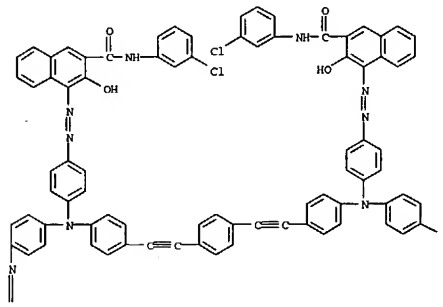

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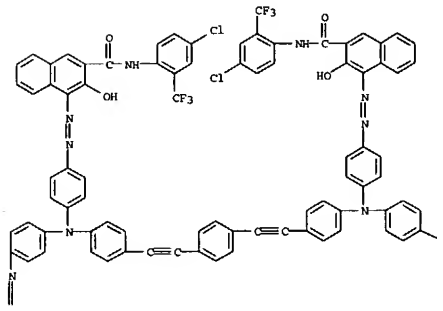

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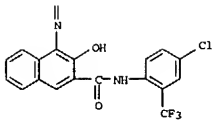

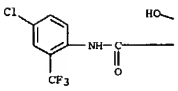

PAGE 2-B

RN 134427-16-0 CAPLUS
CN 11H-Benzo[a]carbazole-3-carboxamide, 1,1',1'',1'''-[1,4-phenylenebis[2,1-ethynediyl-4,1-phenylenenitrilobis(4,1-phenyleneazo)]]tetrakis[2-hydroxy-N-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

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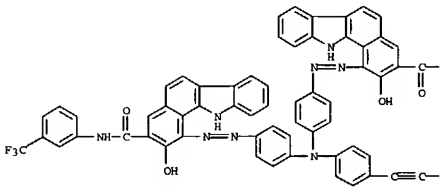

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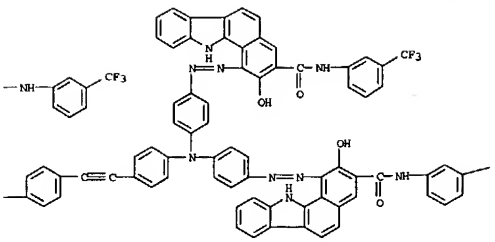

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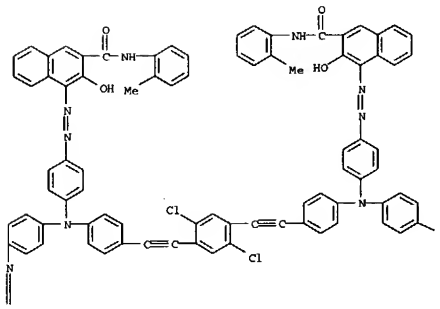
RN 134427-17-1 CAPLUS
CN 2-Naphthalenecarboxamide, 4,4',4'',4'''-[(2,5-dichloro-1,4-phenylene)bis[2,1-ethynediyl-4,1-phenylenenitrilobis(4,1-phenyleneazo)]]tetrakis[3-hydroxy-N-(2-methylphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



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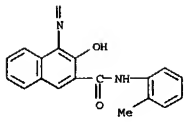

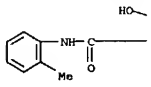

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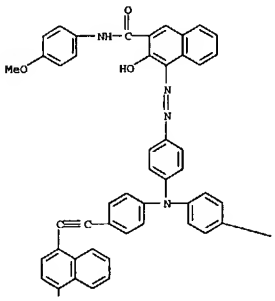
RN 134427-18-2 CAPLUS
CN 2-Naphthalenecarboxamide, 4,4',4'',4'''-[1,4-naphthalenediylbis[2,1-ethynediyl-4,1-phenylenenitrilobis(4,1-phenyleneazo)]]tetrakis[3-hydroxy-N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



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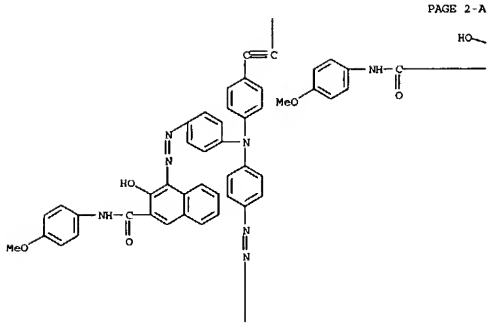

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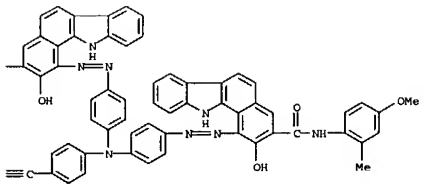

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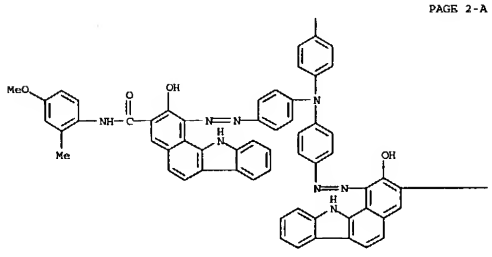

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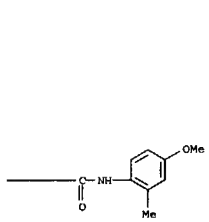

RN 134427-20-6 CAPLUS
CN 2-Naphthalenecarboxamide, 4,4',4'',4'''-[1,3-azulenediylbis[2,1-ethynediyl-

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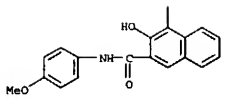

RN 134427-19-3 CAPLUS
CN 11H-Benzo[a]carbazole-3-carboxamide, 1,1',1'',1'''-[1,4-naphthalenediylbis[2,1-ethynediyl-4,1-phenylenenitrilobis(4,1-phenyleneazo)]]tetrakis[2-hydroxy-N-(4-methoxy-2-methylphenyl)- (9CI) (CA INDEX NAME)

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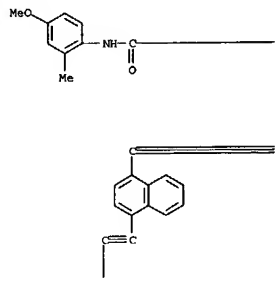
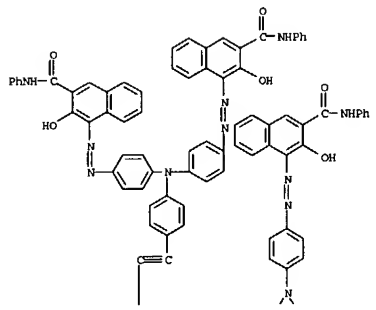
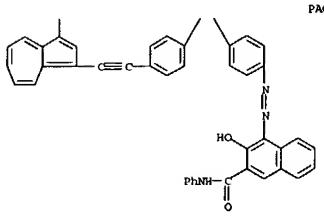


4,1-phenylenenitrilobis(4,1-phenyleneazo)]]tetrakis[3-hydroxy-N-phenyl- (9CI) (CA INDEX NAME)

PAGE 1-A

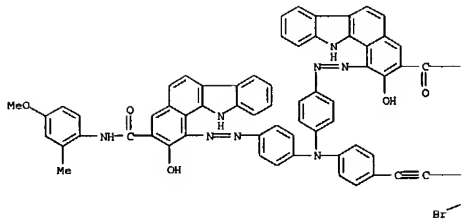


PAGE 2-A



RN 134427-21-7 CAPLUS
CN 11H-Benzo[a]carbazole-3-carboxamide, 1,1',1'',1'''-[(3,4-dibromo-2,5-thiophenediyl)bis[2,1-ethynediyl-4,1-phenylenenitrilobis(4,1-phenyleneazo)]]tetrakis[2-hydroxy-N-(4-methoxy-2-methylphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



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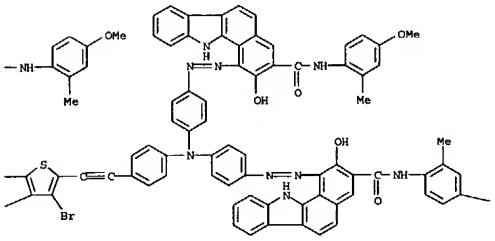
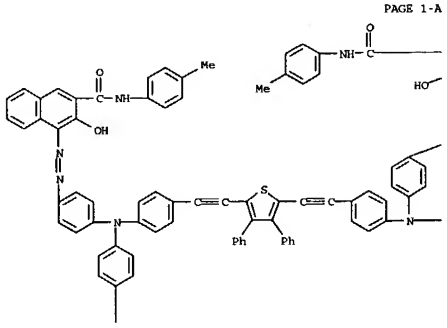


PAGE 1-C

RN 134427-22-8 CAPLUS
CN 2-Naphthalenecarboxamide, 4,4',4'',4'''-[(3,4-diphenyl-2,5-thiophenediyl)bis[2,1-ethynediyl-4,1-phenylenenitrilobis(4,1-phenyleneazo)]]tetrakis[3-hydroxy-N-(4-methylphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



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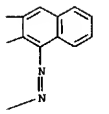

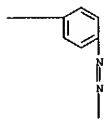

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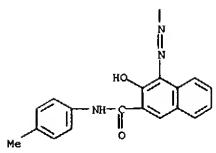
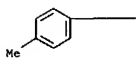
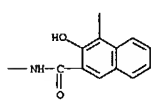


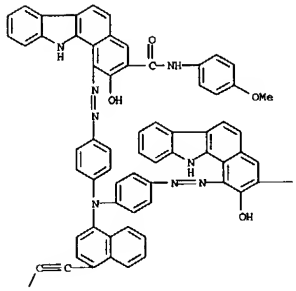


PAGE 2-B



RN 134427-23-9 CAPLUS
CN 11H-Benzo[a]carbazole-3-carboxamide, 1,1',1'',1'''-[1,4-phenylenebis[2,1-ethynediyl-4,1-naphthalenediylnitrilobis(4,1-phenyleneazo)]]tetrakis[2-hydroxy-N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



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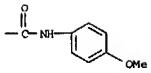

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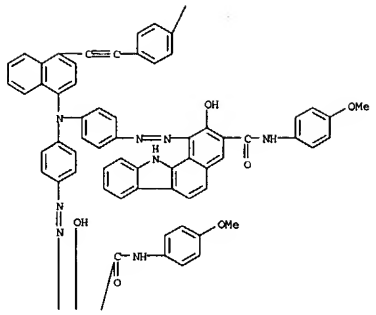
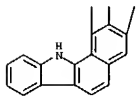


PAGE 3-A



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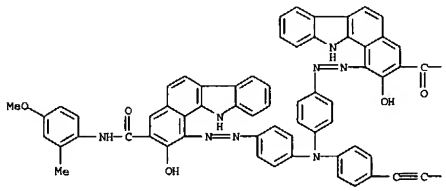
CN 11H-Benzo[a]carbazole-3-carboxamide, 1,1',1'',1'''-[1,4-phenylenebis[2,1-ethynediyl-4,1-phenylenenitrilobis(4,1-phenyleneazo)]]tetrakis[2-hydroxy-N-(4-methoxy-2-methylphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



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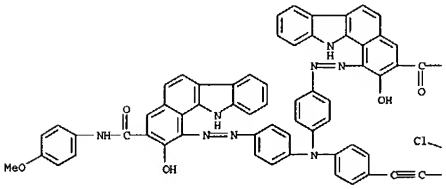

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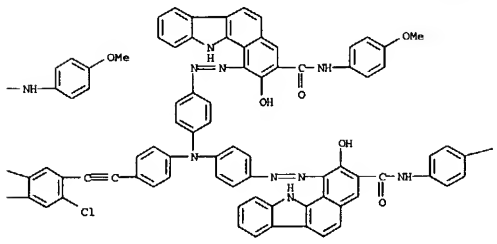
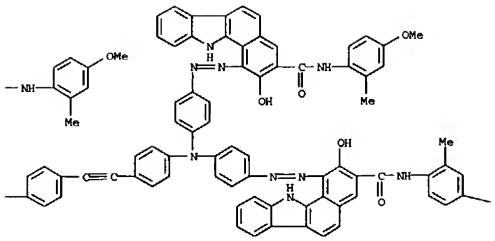


PAGE 1-C

OMe

RN 134461-14-6 CAPLUS
CN 11H-Benzo[a]carbazole-3-carboxamide, 1,1',1'',1'''-[(2,5-dichloro-1,4-

PAGE 1-B



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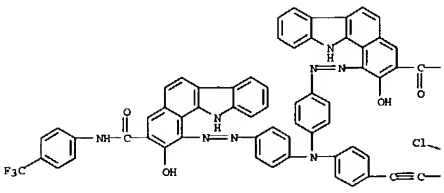
OMe

RN 134461-13-5 CAPLUS
CN 11H-Benzo[a]carbazole-3-carboxamide, 1,1',1'',1'''-[(2,5-dichloro-1,4-phenylene)bis[1,2-ethynediyl-4,1-phenylenenitrilobis(4,1-phenyleneazo)]]tetrakis[2-hydroxy-N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

phenylene)bis[2,1-ethynediyl-4,1-phenylenenitrilobis(4,1-phenyleneazo)]]tetrakis[2-hydroxy-N-[4-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



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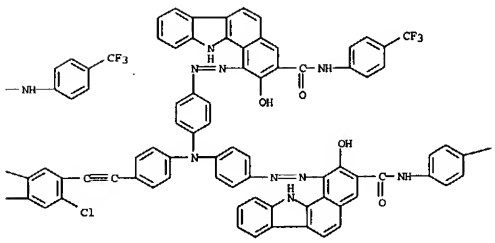
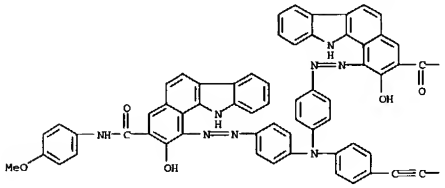


PAGE 1-C

CF3

RN 134461-16-8 CAPLUS
CN 11H-Benzo[a]carbazole-3-carboxamide, 1,1',1'',1'''-[2,5-thiophenediylbis[2,1-ethynediyl-4,1-phenylenenitrilobis(4,1-phenyleneazo)]]tetrakis[2-hydroxy-N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



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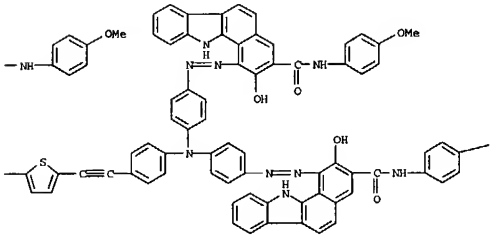

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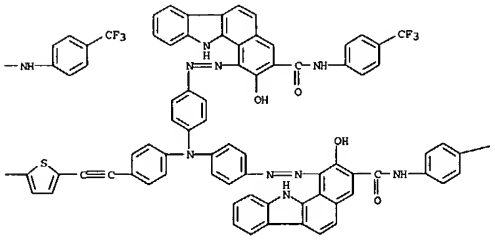

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CF3

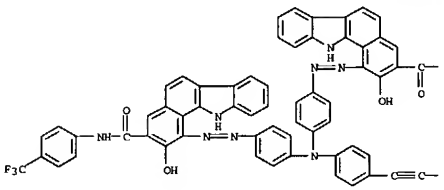
RN 134461-18-0 CAPLUS
CN 11H-Benzo[a]carbazole-3-carboxamide, 1,1',1'',1'''-[(3,4-dichloro-2,5-thiophenediyl)bis[2,1-ethynediyl-4,1-phenylenenitrilobis(4,1-phenyleneazo)]]tetrakis[2-hydroxy-N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-C

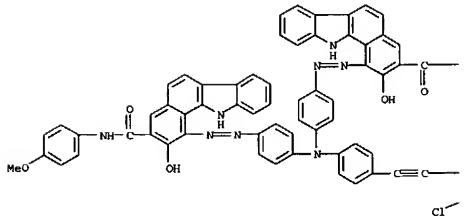
OMe

RN 134461-17-9 CAPLUS
CN 11H-Benzo[a]carbazole-3-carboxamide, 1,1',1'',1'''-[2,5-thiophenediylbis[2,1-ethynediyl-4,1-phenylenenitrilobis(4,1-phenyleneazo)]]tetrakis[2-hydroxy-N-[4-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-A



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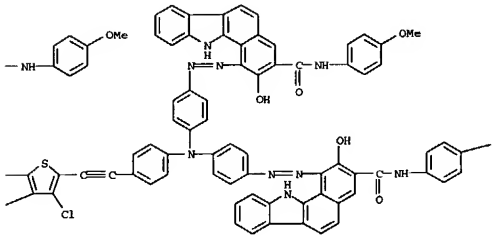

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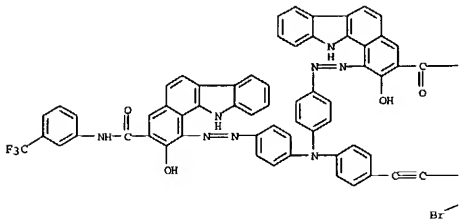
OMe

RN 134461-19-1 CAPLUS

CN 11H-Benzo[a]carbazole-3-carboxamide, 1,1',1'',1'''-[(3,4-dibromo-2,5-thiophenediyl)bis[2,1-ethynediyl-4,1-phenylenenitrilobis(4,1-phenyleneazo)]]tetrakis[2-hydroxy-N-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



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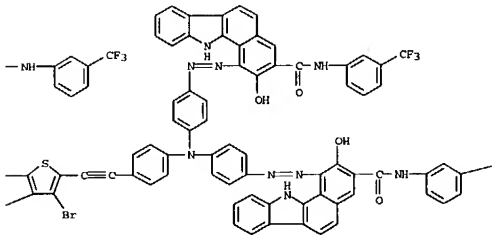

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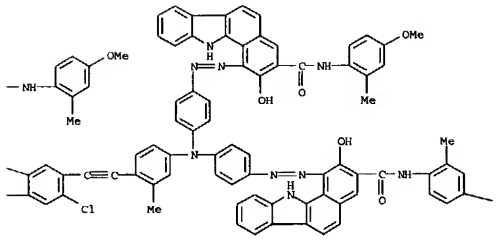

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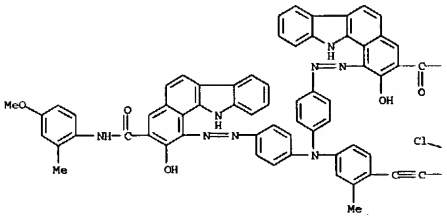

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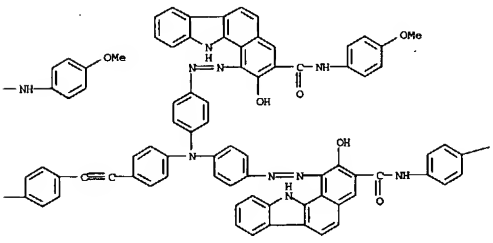

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IT 134461-11-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and use of, as charge-generating agent for electrophotog. photoconductor)

RN 134461-11-3 CAPLUS
CN 11H-Benzo[a]carbazole-3-carboxamide, 1,1',1'',1'''-[1,4-phenylenebis[2,1-ethynediyl-4,1-phenylenenitrilobis(4,1-phenyleneazo)]]tetrakis[2-hydroxy-N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

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RN 134461-23-7 CAPLUS
CN 11H-Benzo[a]carbazole-3-carboxamide, 1,1',1'',1'''-[(2,5-dichloro-1,4-phenylene)bis[2,1-ethynediyl(3-methyl-4,1-phenylene)nitrilobis(4,1-phenyleneazo)]]tetrakis[2-hydroxy-N-(4-methoxy-2-methylphenyl)- (9CI) (CA INDEX NAME)

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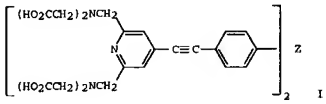
ACCESSION NUMBER: 1989:477814 CAPLUS
DOCUMENT NUMBER: 111:77814
TITLE: Preparation of complexing compounds containing two 2,6-bis[N,N-bis(carboxymethyl)aminomethyl]-4-ethynylpyridine subunits
AUTHOR(S): Takalo, Harri; Hanninen, Elina; Kankare, Jouko
CORPORATE SOURCE: Dep. Chem., Univ. Turku, Turku, SF-20500, Finland
SOURCE: Acta Chemica Scandinavica, Series B: Organic Chemistry and Biochemistry (1988), B42(10), 662-5
CODEN: ACBOCV; ISSN: 0302-4369
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 111:77814
GI



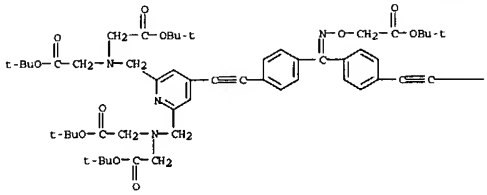
I

AB Compds. containing two 2,6-bis[N,N-bis(carboxymethyl)aminomethyl]-4-ethynylpyridine subunits, e.g. I (Z = C:NOCH2CO2H, CNNH2, CONH), have been prepared by coupling reactions between diiodoarenes and acetylenes in the presence of a small amount of a Pd catalyst and CuI.

IT **121724-17-2P 121724-18-3P 121724-19-4P**
121724-20-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrolysis of, with trifluoroacetic acid)

RN 121724-17-2 CAPLUS
CN Glycine, N,N',N'',N'''-[[[2-(1,1-dimethylethoxy)-2-oxoethoxy]carbonimidoyl]bis[4,1-phenylene-2,1-ethynediyl-4,2,6-pyridinetriylbis(methylene)]]tetrakis[N-[2-(1,1-dimethylethoxy)-2-oxoethyl]-, tetrakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

PAGE 1-A



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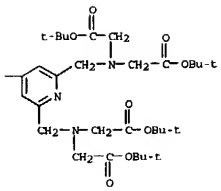
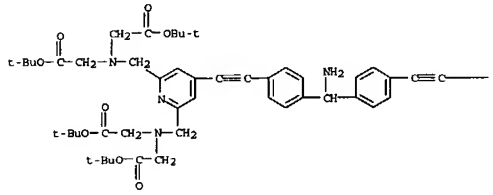


RN 121724-18-3 CAPLUS
CN Glycine, N,N',N'',N'''-[(aminomethylene)bis[4,1-phenylene-2,1-ethynediyl-4,2,6-pyridinetriylbis(methylene)]]tetrakis[N-[2-(1,1-dimethylethoxy)-2-oxoethyl]-, tetrakis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

PAGE 1-A



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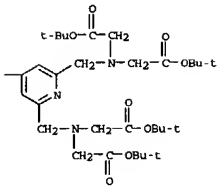
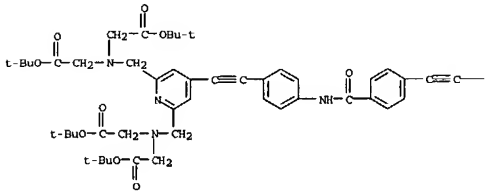


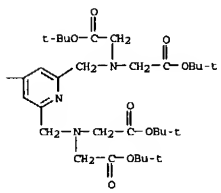
RN 121724-19-4 CAPLUS

CN Glycine, N,N'-[[4-[[4-[[4-[[2,6-bis[[bis[2-(1,1-dimethylethoxy)-2-oxoethyl]amino]methyl]-4-pyridinyl]ethynyl]benzoyl]amino]phenyl]ethynyl]-2,6-pyridinediyl]bis(methylene)]bis[N-[2-(1,1-dimethylethoxy)-2-oxoethyl]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

PAGE 1-A

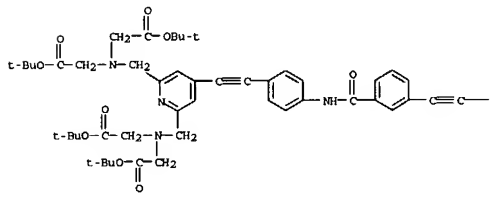


PAGE 1-B



RN 121724-20-7 CAPLUS
CN Glycine, N,N'-[[4-[[4-[[3-[[2,6-bis[[bis[2-(1,1-dimethylethoxy)-2-oxoethyl]amino]methyl]-4-pyridinyl]ethynyl]benzoyl]amino]phenyl]ethynyl]-2,6-pyridinediyl]bis(methylene)]bis[N-[2-(1,1-dimethylethoxy)-2-oxoethyl]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

PAGE 1-A



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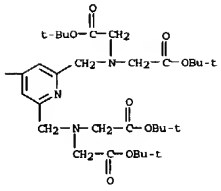

IT **121724-22-9P 121724-24-1P 121724-26-3P**
121724-28-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 121724-22-9 CAPLUS
CN Glycine, N,N',N'',N'''-[[(carboxymethoxy)carbonimidoyl]bis[4,1-phenylene-2,1-ethynediyl-4,2,6-pyridinetriylbis(methylene)]]tetrakis[N-(carboxymethyl)-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 121724-21-8
CMF C49 H47 N7 O19

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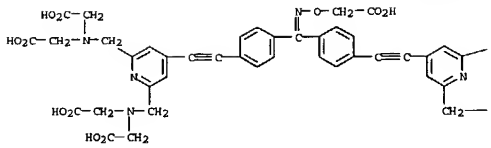

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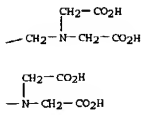

CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 121724-24-1 CAPLUS
CN Glycine, N,N',N'',N'''-[(aminomethylene)bis[4,1-phenylene-2,1-ethynediyl-4,2,6-pyridinetriylbis(methylene)]]tetrakis[N-(carboxymethyl)-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 121724-23-0
CMF C47 H47 N7 O16

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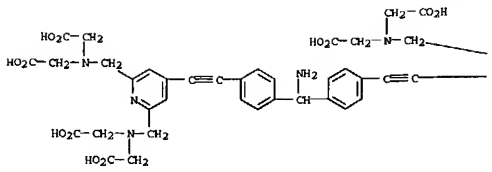

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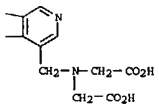

CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 121724-26-3 CAPLUS
CN Glycine, N,N'-[[4-[[4-[[4-[[2,6-bis[[bis(carboxymethyl)amino]methyl]-4-pyridinyl]ethynyl]benzoyl]amino]phenyl]ethynyl]-2,6-pyridinediyl]bis(methylene)]bis[N-(carboxymethyl)-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 121724-25-2
CMF C47 H45 N7 O17

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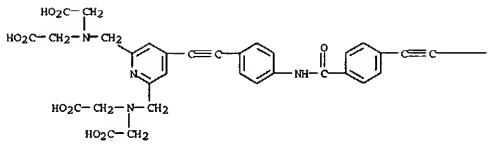

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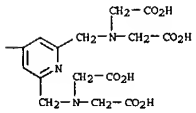

CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 121724-28-5 CAPLUS
CN Glycine, N,N'-[[4-[[4-[[3-[[2,6-bis[[bis(carboxymethyl)amino]methyl]-4-pyridinyl]ethynyl]benzoyl]amino]phenyl]ethynyl]-3,5-pyridinediyl]bis(methylene)]bis[N-(carboxymethyl)-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 121724-27-4
CMF C47 H45 N7 O17

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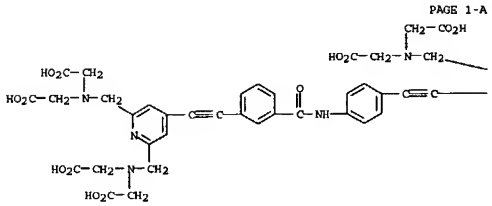

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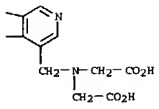

CM 2

CRN 76-05-1
CMF C2 H F3 O2

=> logoff
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	163.53	815.23
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-22.87	-23.56

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